

BREMIKER'S
TABLES OF THE
COMMON LOGARITHMS
OF NUMBERS
AND
TRIGONOMETRICAL FUNCTIONS
TO SIX PLACES OF DECIMALS.

TENTH STEREOTYPED EDITION.

WITH
AN APPENDIX
Containing
A TABLE OF
NATURAL FUNCTIONS AND CIRCULAR MEASURES
OF ANGLES TO EACH MINUTE OF ARC
TO FIVE PLACES OF DECIMALS.

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PREFACE.

THE earliest tables of logarithms which were computed by the inventors of logarithms have a large number of decimal places, partly in order to avoid the objection that by the aid of logarithms a number can be found only to a limited degree of accuracy, partly because these tables were intended to serve as a foundation for later publications. The latter purpose, so far as the trigonometrical functions are concerned, has been mainly accomplished by the *Trigonometrica Britannica*, Gaudae 1633, which was published by Gellibrand after Briggs' death, and which contains the natural sines and cosines to 15 and their logarithms to 14 decimal places. For the logarithms of numbers, the *Arithmetica Logarithmica*, Londini 1624, which was published by Briggs and contains the logarithms to 14 decimal places, is like the former a standard work of permanent value. But it was soon found that the labour of performing a calculation by the aid of these tables was so great, on account of the large number of decimal places, that the employment of logarithms, although their advantage was theoretically evident, did not commend itself in practice. In order, therefore, to obviate this inconvenience, Adrian Vlacq published new tables of ten-figure logarithms of numbers as well as of sines, cosines, tangents and cotangents for every tenth second of the entire quadrant, which were published under the title *Arithmetica Logarithmica*, Gaudae 1628, and *Trigonometrica artificialis*, Gaudae 1633. These works served as a basis for the *Thesaurus logarithmorum*, Lipsiae 1794, which was published by Vega, and which even now is considered the best table of ten-figure logarithms. But, as it soon became evident that a computation performed with a smaller number of decimal places would still be of the same practical value, other tables were constructed which for the sake of greater convenience contained seven decimal places only. Of such tables those of Shervin, Gardiner, Callet and Vega were the best known and had the widest circulation.

After these tables of seven-figure logarithms had been used for nearly two hundred years, it was seen that even logarithms of one figure less might be used for many purposes with a sufficient degree of accuracy. For, all computations based on any measured data give necessarily an inaccurate result on account of the inaccuracy of the data themselves, as the errors of such measurements, even when obtained by the most perfect instruments, are still larger than the errors which may be produced by the accumulation of such inaccuracies as arise from neglecting the

seventh place of decimals in the calculations. The errors, therefore, by which the result of the computation will be affected, cannot be much altered, whether the seventh place of decimals is retained or omitted, and this is the reason why tables of six-figure logarithms are now used by astronomers and physicists for all ordinary purposes.

Doubtless these tables would have come much earlier into use, if there had been any as conveniently arranged as the best tables of seven-figure logarithms; for the advantage gained by their use is by no means inconsiderable, as a computation may be performed in about two thirds of the time and with a great deal less labour and with less liability to mistakes. This is the experience of every computer who has used tables of six as well as of seven figures for any length of time, and the fact becomes of even greater importance in regard to the use of such tables in schools. While amateurs and beginners who use seven-figure tables for their computations become bewildered by the unnecessary number of figures, and are thus deterred from following out the practical application of their mathematical studies, the reverse of this takes place, when they make use of six-figure tables. The ease with which the logarithms are found from such tables, and the rapidity and facility with which any proposed result may be obtained, render computing really a pleasant pastime and a recreation from other more abstract mathematical studies.

PREFACE

TO THE FIRST EIGHT STEREOTYPED EDITIONS.

The first editions of these tables, the *Nova Tabula Berolinensis*, Berolini 1852, as well as the German edition of 1860, had been printed with moveable types. These were published previously to the stereotyped edition, in order to see how far the new arrangement given to these tables would be approved, and to elicit the opinion of critics so as to enable the author to make in the present stereotyped edition such alterations as would be generally desired.

This purpose has now been accomplished. The most eminent scientific men have acknowledged the value of these tables, and their use during fifteen years has fully established the fact that their arrangement affords the greatest convenience to computers, so that it has been adopted in many similar tables which have been published during this time.

In regard to the contents, opinions were more divided, according as the wants of the astronomer, the engineer or the mere teacher were held in view. However, as the book must necessarily preserve a general character, any speciality had to be excluded; but in order to satisfy a more general wish the tables of Gauss's logarithms have been introduced. These were newly computed to ten figures and then reduced to six. The arrangement of the tables for addition is the same as in Wittstein's tables.* The same is the case with the tables for subtraction as far as the argument 0.42,

* Wittstein, Siebenstellige Gauss'sche Logarithmen, Hannover 1866.

but the remainder of the tables has been arranged differently in order to allow the differences to increase only up to 62 instead of 1000, as would be case if the former arrangement had been followed throughout the entire tables.

A change has also been made in the trigonometrical portion, as numbers for converting sines into arcs have been added for the first five degrees, and the tables to single seconds, which had been given in the previous editions, have been at the same time omitted.

The few errata which had been noticed in the former editions have been corrected.

Berlin.

C. BREMIKER.

PREFACE

TO THE NINTH STEREOTYPED EDITION.

The table of logarithmic sines and tangents to every second for the first five degrees has been reinserted in this edition in compliance with a widely expressed desire. The table of constants at the end of the book has also been much extended.

INTRODUCTION.

Table I.

Logarithms of the natural numbers.

Pages 1—185.

The common logarithm of a number is the index of that power of 10 which is equal to the number. So that if $10^a = A$, a is called the logarithm of A , or shortly, $a = \log A$. This number 10 is called the *base* of the logarithm. There is a system of logarithms having another base, which occurs in theoretical investigations, but for practical purposes the system having 10 as the base is the most convenient.

Logarithms possess the following properties:

The logarithm of a product is equal to the sum of the logarithms of the factors;

the logarithm of a quotient is equal to the logarithm of the dividend minus the logarithm of the divisor;

the logarithm of a power of any quantity is equal to the product of the exponent and the logarithm of the quantity;

the logarithm of a root of any quantity is equal to the logarithm of the quantity divided by the index of the root;

or, expressed as formulae:

$$\log AB = \log A + \log B;$$

$$\log \frac{A}{B} = \log A - \log B;$$

$$\log A^n = n \log A;$$

$$\log \sqrt[n]{A} = \frac{\log A}{n}.$$

The use of logarithms thus greatly lightens the labour of calculation, as multiplication and division are performed by means of addition and subtraction, and all raising to powers and extracting of roots, by means of multiplication and division.

From the definition of a logarithm it is evident that the only numbers whose logarithms are integral numbers are the positive and negative integral powers of 10. Thus:

| | |
|--------------------|-----------------------|
| $\log 1000 = 3$ | since $10^3 = 1000$ |
| $\log 100 = 2$ | " $10^2 = 100$ |
| $\log 10 = 1$ | " $10^1 = 10$ |
| $\log 1 = 0$ | " $10^0 = 1$ |
| | |
| $\log 0.1 = -1$ | since $10^{-1} = 0.1$ |
| $\log 0.01 = -2$ | " $10^{-2} = 0.01$ |
| $\log 0.001 = -3$ | " $10^{-3} = 0.001$ |
| $\log 0.0001 = -4$ | " $10^{-4} = 0.0001$ |

Generally, the logarithm of a number is fractional, and consists of two parts: a whole number, called the characteristic, and a positive decimal part, called the mantissa.

Since

$$\begin{aligned}\log 10A &= \log A + \log 10 = \log A + 1 \\ \log 100A &= \log A + \log 100 = \log A + 2 \\ &\quad \&c. \qquad \qquad \&c.\end{aligned}$$

therefore the logarithms of 10, 100, 1000, &c. times a number (and consequently also those of $\frac{1}{10}$, $\frac{1}{100}$, $\frac{1}{1000}$ &c. times the same number) have the same mantissa, and the different positions of the decimal place are only indicated by difference in the characteristic; hence in tables of logarithms the mantissae only of the logarithms are given, the insertion of the characteristic being left to the calculator. To do this it must be noticed that in the logarithms of all numbers between 1 and 10 the characteristic is 0, of those between 10 and 100 it is 1, of those between 100 and 1000 it is 2, and so on; and in the logarithms of all numbers between 0 and 0.1, 0.1 and 0.01, 0.01 and 0.001 &c., the characteristics are respectively -1, -2, -3, &c. In the latter case, when the characteristic is negative, the positive mantissa is retained, and the negative sign is placed above the characteristic to show that it belongs to it only. Thus $\log 2 = 0.301030$, and therefore $\log 0.2 = -1 + 0.301030$, which is written $\bar{1} \cdot 301030$, or sometimes more conveniently $9 \cdot 301030 - 10$. So $\log 0.02$ may be written $\bar{2} \cdot 301030$ or $8 \cdot 301030 - 10$; and similarly in other cases.

The rule for determining the characteristic is then as follows:

If the number is greater than 1, the characteristic of its logarithm is positive; and if less than 1, the characteristic is negative; in each case its numerical value being equal to the number of places by which the highest significant figure of the number is removed from the units place.

The mantissa is always positive.

Thus, take the numbers

$$432 \qquad 57896 \qquad 32.467 \qquad 0.6798 \qquad 0.000573;$$

the characteristics of the corresponding logarithms are respectively

$$2 \qquad 4 \qquad 1 \qquad \bar{1} \qquad \bar{4}$$

To find the logarithm of any given number.

If the number has one, two, or three figures, its logarithm is included in the first four pages of table I. In this case the number is in one of the columns marked N, and the mantissa or its logarithm stands on its right in the next column, which is headed Log. To this must be added the characteristic according to the rule given above. Thus, next to the number 574, appears the mantissa 758912, and the characteristic of 574 is 2, so that its complete logarithm is $2 \cdot 758912$.

The logarithms of numbers consisting of four or more significant figures are to be obtained from the remaining pages 6 to 185 of the table.

The method of finding the logarithm of a four-figure number is exactly similar to that in the case of a number not exceeding three figures. We find the number in the column marked N, and the mantissa of its logarithm immediately next to it in the column headed 0.

If the number has five figures we must look for the first four figures in the column headed N, and for the fifth in the horizontal line at the head of the table. Where the vertical column corresponding to the latter meets the horizontal line of the first four figures, we find the four last figures of the mantissa of the logarithm. The two first figures are to be found on the same line in the vertical column headed 0; they are printed, however, generally only on every fifth line, as they are the same for many consecutive logarithms. If, for instance, we want to find the logarithm of 116.77, we find on page 9 on the line of 1167 in the column headed 7 the figures 7331, which combined with 06 in the column headed 0, make up the decimal part of the logarithm .067331, and as the characteristic is 2, we have $\log 116.77 = 2.067331$.

Similarly, if we wanted to find the logarithm of 39813, we should find on page 65 in the same manner the last four figures 0025. But in this case they must be combined with the figures 60 in the line following, because there occurred in the first line a change of the figures from 59 to 60, a fact which is indicated by the small horizontal line over the 0. Therefore the logarithm in this case is 4.600025.

If the given number has more than five figures, we consider those following the fifth as decimals by which the difference of two consecutive logarithms must be multiplied. This product is the proportional part which must be added to the logarithm of the number containing only the first five figures. For example, suppose we want to find the logarithm of the number 11677697. From the tables we find that the logarithms of the numbers 11677 and 11678 are respectively .067331 and .067368, and we see that their difference is equal to 37 units of the sixth decimal place. The product of 37 by 0.697 = 26, which must be added to the logarithm of the number 11677. Thus we find for the logarithm of the given number, having regard to the rules given for the characteristic,

7.067357.

In order to obviate the trouble of such multiplications as we had to perform in the above example, small tables are given on the right margin of the tables, in the column headed PP (proportional parts), from which these products can be easily obtained. For the above example we would make use of the small table headed 37 and would take from it according to the three figures of the decimal part 697

| | | |
|-------------------|-------|--------|
| for 0.6 | ..... | 22.2 |
| 0.09 | ..... | 3.33 |
| 0.007 | ..... | 0.259 |
| that is for 0.697 | ..... | 25.789 |

or 26 units of the sixth decimal place. This addition can easily be performed mentally, as the decimals need to be taken into account only so far as they have any effect in altering the last (sixth) figure.

To find the number corresponding to any given logarithm.

If we want to find the number corresponding to a given logarithm, we must first look for the two first figures of the mantissa in the column headed 0, and then in the columns headed 0, 1, 2, 3 &c. for those four figures which are less than, but come nearest to, the four last figures of the given logarithm. Then we take from the column headed N and on the same horizontal line the four first figures of the number, and as fifth figure that which heads the vertical column. The figures following the fifth are obtained by dividing the difference between the given logarithm and the one found in the tables by the difference of two consecutive logarithms. For example, if we want to find the number corresponding to the logarithm 2.185249, we first find on page 16 the nearest mantissa 185230, to which the number 15319 belongs. Subtracting this mantissa from that of the given logarithm we find the number 19, which must be divided by the difference of two consecutive logarithms, that is by 29. The quotient is 0.66. Therefore the seven figures of the number are 1531966, and, as the characteristic of the given logarithm is 2, the number is 153.1966. If the logarithm 8.185249 had been given, the corresponding number would contain the same figures as before, that is 1531966, but, as it must contain 8 figures to the left of the units place on account of the characteristic 8, we must add two ciphers, so that the number would be 153196600. And if the given logarithm had been 7.185249 — 10, the corresponding number would have been 0.001531966.

For the use of the angles and the quantities S and T at the foot of each page see p. IX.

As an appendix to this table there are on page 186 tables for converting common logarithms into what are called natural logarithms, and vice versa.

These natural logarithms have for their base the number 2.718281 828.... which is known as e , and are connected with the common system by the following relation:

the natural logarithm of a number = its common logarithm \times the natural logarithm of 10; or shortly

$$\log_e N = \log_{10} N \times \log_e 10$$

the small subscript letters denoting the respective bases.

The natural logarithm of 10 = 2.302585 09.... and its reciprocal = 0.434294 48..., so that to find the natural logarithm of a number from its common logarithm we must multiply the common logarithm by 2.302585 09.... and to find the common logarithm from the natural logarithm we must multiply the natural logarithm by 0.434294 48....

The tables on page 186 are to facilitate this multiplication.

Table II.

Pages 187—262.

This table contains the logarithms of sines and tangents of the angles between 0° and 5° to every second, these being also the logarithms of the cosines and cotangents of angles between 85° and 90° . On the left-hand pages of this table are the logarithms of the sines and cosines, and on the right-hand pages those of the tangents and cotangents. The degrees and minutes at the head of each page are to be read in connection with the seconds contained in the first vertical column; those at the foot with the seconds in the last vertical column.

The full mantissae of the logarithms are given in the table, but, after the first halves of pages 188 and 189, the characteristic, when it is common to several columns, is only inserted in the first of them.

From every logarithm 10 must be subtracted, the characteristics having been increased by that number to avoid the necessity of printing minus signs above them all.

To find the log sine or log tangent of a given angle comprised in the table.

For each whole second the logarithm is directly given. Thus on page 232 we find $\log \sin 2^\circ 58' 12'' = 8.714439 - 10 = \overline{2}.714439$, which is the same also as $\log \cos 87^\circ 1' 48''$. If, however, a fraction of a second is given, a proportional part must be added, calculated in the same way as in the logarithms of numbers. We find from the table the logarithm corresponding to the whole number of seconds, find the difference between this and the following logarithm, which represents an increase of $1''$ in the angle, and calculate the proportional part of this difference which corresponds to the given fraction of a second. By adding this proportional part to the logarithm first looked out, the required logarithm is obtained. Thus, suppose we want $\log \sin 2^\circ 58' 12''.34$, we find on page 232 that $\log \sin 2^\circ 58' 12'' = \overline{2}.714439$ and the difference between that and the next logarithm is 41 units of the sixth decimal place. This multiplied by 0.34 gives $+14$ as the proportional part to be added to the above logarithm, so that $\log \sin 2^\circ 58' 12''.34 = \overline{2}.714453$.

To find the angle corresponding to a given log sine or log tangent (or log cosine or log cotangent).

The method of finding the required angle is exactly similar to that of finding a number corresponding to a given logarithm, except that 10 has first to be added to the given log sine &c., before we can find it in the table. We look in the table for the nearest smaller or greater logarithm according as the logarithms increase with the angles or not, and we divide the difference between this and the given logarithm by the difference between the two consecutive tabular logarithms between which the given one lies. The quotient is the fraction of a second which, added to the angle belonging to the tabular logarithm first looked out, will give the angle sought for.

Thus if $\overline{2}.685163$, or $8.685163 - 10$, is given as a log cosine, we find the nearest greater tabular logarithm 8.685188 , which corresponds to the angle $87^\circ 13' 25''$. The difference between this and the given logarithm is 25 units of the 6th decimal place, and the

difference between the two adjacent tabular logarithms is 44 units. Dividing 25 by 44, we obtain 0'57 which, added to the former angle, gives $87^{\circ} 13' 25''57$ as the angle required.

A second method of finding the logarithms of the sine and tangent of a small angle is obtained by using the values of

$$S = \log \left(\frac{\sin x''}{x} \right) + 10, \text{ and } T = \log \left(\frac{\tan x''}{x} \right) + 10,$$

given at the foot of pages 2—185. The process depends on the fact that the logarithm of the sine or tangent of an angle is equal to the logarithm of the angle itself expressed in seconds *plus* the value of S or T respectively (10 having to be subtracted as usual). The particular value of S or T to be used for this purpose is that corresponding to the angle at the foot of these pages which is nearest to the given angle. If, for example, $\log \sin 0^{\circ} 22' 57''708$ is required, we find on p. 13 that, for an angle $0^{\circ} 22' 58'' = 1378''$, S has the value 4.685572. Adding this value to the logarithm of 1377.708, which is 3.139157, we find that $\log \sin 0^{\circ} 22' 57''708 = 7.824729 - 10 = \overline{3}.824729$. Similarly $\log \tan 0^{\circ} 22' 57''708 = 4.685581 + 3.139157 - 10 = \overline{3}.824738$.

For the converse process, to find the angle corresponding to a given log sine or log tangent, we make use of the fact that the logarithm of the angle expressed in seconds is equal to the logarithm of the sine or tangent minus the corresponding value of S or T. In this case the process has to be somewhat different, as we must look in Table II for the angle approximating to the given one to the nearest second, and then from Table I with the help of this find the right value of S or T. Thus, if $\log \tan \theta = 8.107831$, θ would be approximately equal to $0^{\circ} 44' 4''$ (p. 199). Opposite this angle on p. 38 the value of $T = 4.685599$, and subtracting this from $\log \tan \theta$, we obtain 3.422232 as the logarithm of θ in seconds, whence, going from logarithm to number, $\theta = 2643''.82 = 0^{\circ} 44' 3''.82$.

It is only in the case of very small angles that this method is more advantageous than the direct use of Table II, when the difference between two consecutive logarithms in Table II becomes very considerable.

As the values of S and T in Table I are only given as far as an angle of $10000'' = 2^{\circ} 46' 40''$, the above mentioned method can only be used for angles not exceeding this.

To enable an analogous method to be used for angles up to 5° , a special column marked *b* is given on pages 264—293. To find in this way the log sine or log tangent of any given angle, we look first in Table I for the logarithm of the angle itself expressed in seconds, subtract from this the constant logarithm of ρ (see p. 595), and either subtract from the result the corresponding value of *b*, or add *2b* to it, according as we require the log sine or log tangent. Thus for an angle of $2^{\circ} 58' 12''.34 = 10692''.34$:

$$\log 10692.34 = 4.029073$$

$$\log \rho = 5.314425$$

$$\text{the difference} = \overline{2}.714648$$

Sine:

Tangent:

| | |
|---|---|
| $\overline{2}.714648$ p. 281: $- b = -$ 1945 | $\overline{2}.714648$ p. 281: $+ 2b = +$ 389 |
| $\log \sin 2^{\circ} 58' 12''.34 = \overline{2}.714454$ | $\log \tan 2^{\circ} 58' 12''.34 = \overline{2}.715037$ |

It can be seen from the above example that this method is not so advantageous as the use of the values of S and T in Table I, or the direct use of Table II.

Table III.

Pages 263—533.

This table contains the logarithms of the trigonometrical functions, sine, cosine, tangent and cotangent, for every tenth second of the quadrant. The titles at the head of the different columns and the minutes and seconds on the left-hand side of each page refer to angles between 0° and 45° , while those referring to angles between 45° and 90° are at the foot of the columns and to the right of each page.

The differences between every two consecutive logarithms stand, in the case of sines and cosines, in the columns headed *d* to the right of the corresponding logarithms; in the case of tangents and cotangents, they stand in the intermediate column marked *d. c.* (differentia communis), as they are the same for both columns.

Since the sines and cosines for the whole quadrant, and the tangents between 0° and 45° , and the cotangents between 45° and 90° , are proper fractions, their logarithms have each been increased by 10 so as to avoid printing negative characteristics, and therefore this number must be subtracted from the above tabular logarithms to obtain the true logarithms.

To find the logarithm of the sine, tangent, cosine, or cotangent of any given angle.

The method to be followed is exactly analogous to that which was given on p. VIII for the similar operation in Table II: it must be noted, however, that there the angles advanced second by second, while here the interval is 10 seconds. If, for example, $\log \sin 7^\circ 17' 32''.36$ is wanted, we find on p. 307 $\log \sin 7^\circ 17' 30'' = 1.103531$, and the corresponding difference $= +165$ units of the 6th decimal place. This difference multiplied by 0.236 gives $+39$ as the proportional part to be added to the above logarithm, giving as the result $\log \sin 7^\circ 17' 32''.36 = 1.103570$. In the margin of the pages small difference-tables are given by which the multiplication can be most easily performed, by adding together several amounts taken from these small tables. Thus in the above example, using the difference-table headed 165:

| | | |
|-----------|-----|--------|
| for $2''$ | ... | 33.0 |
| " 0.3 | ... | 4.95 |
| " 0.06 | ... | 0.990 |
| sum | | 38.940 |

agreeing with the result obtained above by direct multiplication.

If $\log \cot 54^\circ 58' 17''.9$ is required, we find on p. 474 $\log \cot 54^\circ 58' 10'' = 1.845720$, with the difference 45. From the small table headed 45 it is found that to $7''.9$ corresponds a proportional part 36 units, which must be subtracted from the above logarithm since the cotangent decreases as the angle increases, giving finally $\log \cot 54^\circ 58' 17''.9 = 1.845684$.

To find the acute angle corresponding to a given logarithm of the sine, tangent, cosine, or cotangent.

If the logarithm increases with the angle, as in the case of the sine and tangent, we look in the table for the next smaller logarithm, and divide the difference between this and the given logarithm by the difference given in the table between the two consecutive logarithms adjacent to the given one. Expressing this

quotient as a decimal, and removing the decimal point one place to the right, we obtain the seconds and fraction of a second which, added to the angle corresponding to the above smaller tabular logarithm, make up the angle required. The division is facilitated by the use of the marginal difference-table. Given $\log \sin \theta = 1.872574$, we find on p. 514 that the next smaller tabular logarithm is 9.872565, corresponding to the angle $48^\circ 13' 10''$. The difference between this and the given logarithm is 9, which is to be divided by the tabular-difference 19. The quotient is 0.47, and moving the decimal point one place to the right we obtain 4.7 as the amount to be added to the angle $48^\circ 13' 10''$, so that the required angle $\theta = 48^\circ 13' 14.7''$.

If, however, the logarithm decreases as the angle increases, as in the case of cosines and cotangents, we look out the next greater tabular logarithm, subtract the given one from it, and then divide the difference by the tabular-difference and proceed as before. Thus, given $\log \cos \theta = 1.710739$, we find on p. 449 that $\log \cos 59^\circ 5' 10'' = 9.710751$, and divide the difference 12 by the tabular difference 35, the quotient of which is 0.34, and we thus obtain $\theta = 59^\circ 5' 13.4''$.

If we have to find the sine, cosine, tangent or cotangent of an angle greater than 90° , we must subtract from the angle the greatest multiple of 90° contained therein. If this is an even multiple, we take from the table the sine, cosine, or cotangent respectively of the remaining acute angle, but if it should be an odd multiple, we must take respectively the cosine, sine, cotangent or tangent of the acute angle. Moreover we must observe that the sine is negative in the third and fourth quadrants, the cosine in the second and third, and the tangent and cotangent in the second and fourth quadrants. All these relations are exhibited in the following table, where z denotes any acute angle:

| Angle | Sine | Cosine | Tangent | Cotangent |
|-----------------|-----------|-----------|-----------|-----------|
| z | $+\sin z$ | $+\cos z$ | $+\tan z$ | $+\cot z$ |
| $90^\circ + z$ | $+\cos z$ | $-\sin z$ | $-\cot z$ | $-\tan z$ |
| $180^\circ + z$ | $-\sin z$ | $-\cos z$ | $+\tan z$ | $+\cot z$ |
| $270^\circ + z$ | $-\cos z$ | $+\sin z$ | $-\cot z$ | $-\tan z$ |

or we can make use of the following table:

| Angle | Sine | Cosine | Tangent | Cotangent |
|-----------------|-----------|-----------|-----------|-----------|
| z | $+\sin z$ | $+\cos z$ | $+\tan z$ | $+\cot z$ |
| $180^\circ - z$ | $+\sin z$ | $-\cos z$ | $-\tan z$ | $-\cot z$ |
| $180^\circ + z$ | $-\sin z$ | $-\cos z$ | $+\tan z$ | $+\cot z$ |
| $360^\circ - z$ | $-\sin z$ | $+\cos z$ | $-\tan z$ | $-\cot z$ |

From the above tables we see that there are always two angles between 0° and 360° which have the same trigonometrical function. Therefore if we do not otherwise know in what quadrant the angle lies, we must, if there is to be no ambiguity in regard to it, besides knowing the given logarithm and the sign of that function, know also the sign of another trigonometrical function of the same angle: provided that the two functions whose signs are given are not the tangent and cotangent, as these always have the same sign. If, for instance, $\log \tan \theta = 0.170923$, and we know besides that the tangent is negative while the cosine is positive, we should find $\theta = 304^\circ 0' 19.8''$.

Table IV, 1 and 2.

Pages 535—593.

The table of Gauss's Logarithms of addition and subtraction consists of two parts, the first of which serves for both addition and subtraction, the second for subtraction only, being used when the difference of the logarithms exceeds 0.42. In part 1 the corresponding values of $\log x$ and $\log (1 + x)$ are tabulated, in the columns headed A and B respectively; in part 2, those of $\log x$ and $\log \left(1 - \frac{1}{x}\right)$, in the columns headed B and C. The use of these tables for determining the logarithm of the sum or difference of two numbers whose logarithms are given depends on the following relations, in each of which a is considered as greater than b .

For addition:

$$\log (a + b) = \log a + \log \left(1 + \frac{b}{a}\right), \text{ p.p. 535—565.}$$

For subtraction,

when the difference of the logarithms of a and b does not exceed 0.42:

$$\log (a - b) = \log b + \log \left(\frac{a}{b} - 1\right), \text{ p.p. 535—570;}$$

when the difference exceeds 0.42:

$$\log (a - b) = \log a + \log \left(1 - \frac{b}{a}\right), \text{ p.p. 572—593.}$$

The process in the case of addition is as follows:

If the logarithms of two numbers a and b are given, of which a is greater than b , and the logarithm of their sum is required, we find $10 + \log b - \log a$, and look for this number in the column marked A on one of the pages 535—565, and take out the corresponding value of B in the same way as in Table I the logarithm of a given number is obtained. This value of B added to $\log a$ gives the value of $\log (a + b)$.

Thus let the two given logarithms be 0.477121 and 1.230449; the calculation would be as under:

$$\begin{array}{r} \log b = 0.477121 \\ \log a = 1.230449 \\ 10 + \log b - \log a = 9.246672 = A \end{array}$$

therefore from page 550:

$$\begin{array}{r} B = 0.070581 \\ \log a = 1.230449 \\ \log (a + b) = 1.301030 \end{array}$$

Or if the given logarithms are 0.131089 and 8.753210 — 10, we have.

$$\begin{array}{r} 10 + \log b = 8.753210 \\ \log a = 0.131089 \\ 10 + \log b - \log a = 8.622121 = A \end{array}$$

therefore from page 539:

$$\begin{array}{r} B = 0.017822 \\ \log a = 0.131089 \\ \log (a + b) = 0.148911 \end{array}$$

The rules for subtraction are:

Supposing again that a is greater than b , we find $\log a - \log b = B$. If this is less than .42 we look for it in the B-columns of p.p. 535—570, and determine the corresponding value of A , and adding this to $\log b$ we obtain the value of $\log (a - b)$. If, however, B is greater than .42, we must look for it in p.p. 572—593, and determine the number corresponding to it in the C-column, and add this number to $\log a$ to obtain the value of $\log (a - b)$.

Examples. Let the given logarithms be 1.230449 and 0.477121, the calculation would be as under:

$$\begin{array}{r} \log a = 1.230449 \\ \log b = 0.477121 \\ \hline \log a - \log b = 0.753328 = B \end{array}$$

therefore from p. 579: $C = 9.915679 - 10$

$$\begin{array}{r} \log a = 1.230449 \\ \log (a - b) = 1.146128 \end{array}$$

If the logarithms were 3.001750 and 2.854171, we should have:

$$\begin{array}{r} \log a = 3.001750 \\ \log b = 2.854171 \\ \hline \log a - \log b = 0.147579 = B \end{array}$$

therefore from p. 558: $A = 9.607117 - 10$

$$\begin{array}{r} \log b = 2.854171 \\ \log (a - b) = 2.461288 \end{array}$$

To assist the calculator, formulae have been placed for reference at the bottom of each page.

Other Tables.

On p. 534 is a Table of circular measures of angles.

On p. 594 is a Table for converting longitude into time and conversely.

Pages 595—598 contain a table of constants.



APPENDIX

BY

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This is attached to the English edition only, and consists of the natural functions and circular measures for every minute of the quadrant, to five places of decimals. The functions were printed from Hutton's seven figure tables, and compared with Chambers; and, in the cases in which the two omitted figures were 50, the nearest value has been ascertained by reference to more extended tables. The circular measures have been computed independently by the help of Edmondson's calculating machine which reduced the labour to a minimum.



TABLE I.

THE

LOGARITHMS

OF THE

NATURAL NUMBERS

FROM 1 TO 100000.

| N. | Log. | N. | Log. | N. | Log. | N. | Log. | N. | Log. |
|--------------------------------|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | — | 50 | 698970 | 100 | 000000 | 150 | 176091 | 200 | 301030 |
| 1 | 000000 | 51 | 707570 | 101 | 004321 | 151 | 178977 | 201 | 303196 |
| 2 | 301030 | 52 | 716003 | 102 | 008600 | 152 | 181844 | 202 | 305351 |
| 3 | 477121 | 53 | 724276 | 103 | 012837 | 153 | 184691 | 203 | 307496 |
| 4 | 602060 | 54 | 732394 | 104 | 017033 | 154 | 187531 | 204 | 309630 |
| 5 | 698970 | 55 | 740363 | 105 | 021189 | 155 | 190332 | 205 | 311754 |
| 6 | 778151 | 56 | 748188 | 106 | 025306 | 156 | 193125 | 206 | 313807 |
| 7 | 845098 | 57 | 755875 | 107 | 029384 | 157 | 195900 | 207 | 315970 |
| 8 | 903090 | 58 | 763428 | 108 | 033424 | 158 | 198657 | 208 | 318063 |
| 9 | 954243 | 59 | 770852 | 109 | 037426 | 159 | 201397 | 209 | 320146 |
| 10 | 000000 | 60 | 778151 | 110 | 041393 | 160 | 204120 | 210 | 322219 |
| 11 | 041393 | 61 | 785330 | 111 | 045323 | 161 | 206826 | 211 | 324282 |
| 12 | 079181 | 62 | 792392 | 112 | 049218 | 162 | 209515 | 212 | 326336 |
| 13 | 113943 | 63 | 799341 | 113 | 053078 | 163 | 212188 | 213 | 328380 |
| 14 | 146128 | 64 | 806180 | 114 | 056905 | 164 | 214844 | 214 | 330414 |
| 15 | 176091 | 65 | 812913 | 115 | 060698 | 165 | 217484 | 215 | 332438 |
| 16 | 204120 | 66 | 819544 | 116 | 064458 | 166 | 220108 | 216 | 334454 |
| 17 | 230449 | 67 | 826075 | 117 | 068186 | 167 | 222716 | 217 | 336460 |
| 18 | 255273 | 68 | 832509 | 118 | 071882 | 168 | 225309 | 218 | 338456 |
| 19 | 278754 | 69 | 838849 | 119 | 075547 | 169 | 227887 | 219 | 340444 |
| 20 | 301030 | 70 | 845098 | 120 | 079181 | 170 | 230449 | 220 | 342423 |
| 21 | 322219 | 71 | 851258 | 121 | 082785 | 171 | 232996 | 221 | 344392 |
| 22 | 342423 | 72 | 857332 | 122 | 086360 | 172 | 235528 | 222 | 346353 |
| 23 | 361728 | 73 | 863323 | 123 | 089905 | 173 | 238046 | 223 | 348305 |
| 24 | 380211 | 74 | 869232 | 124 | 093422 | 174 | 240549 | 224 | 350248 |
| 25 | 397940 | 75 | 875061 | 125 | 096910 | 175 | 243038 | 225 | 352183 |
| 26 | 414973 | 76 | 880814 | 126 | 100371 | 176 | 245513 | 226 | 354108 |
| 27 | 431364 | 77 | 886491 | 127 | 103804 | 177 | 247973 | 227 | 356026 |
| 28 | 447158 | 78 | 892095 | 128 | 107210 | 178 | 250420 | 228 | 357935 |
| 29 | 462398 | 79 | 897627 | 129 | 110590 | 179 | 252853 | 229 | 359835 |
| 30 | 477121 | 80 | 903090 | 130 | 113943 | 180 | 255273 | 230 | 361728 |
| 31 | 491362 | 81 | 908485 | 131 | 117271 | 181 | 257679 | 231 | 363612 |
| 32 | 505150 | 82 | 913814 | 132 | 120574 | 182 | 260071 | 232 | 365488 |
| 33 | 518514 | 83 | 919078 | 133 | 123852 | 183 | 262451 | 233 | 367356 |
| 34 | 531479 | 84 | 924279 | 134 | 127105 | 184 | 264818 | 234 | 369216 |
| 35 | 544068 | 85 | 929419 | 135 | 130334 | 185 | 267172 | 235 | 371068 |
| 36 | 556303 | 86 | 934498 | 136 | 133539 | 186 | 269513 | 236 | 372912 |
| 37 | 568202 | 87 | 939519 | 137 | 136721 | 187 | 271842 | 237 | 374748 |
| 38 | 579784 | 88 | 944483 | 138 | 139879 | 188 | 274158 | 238 | 376577 |
| 39 | 591065 | 89 | 949390 | 139 | 143015 | 189 | 276462 | 239 | 378398 |
| 40 | 602060 | 90 | 954243 | 140 | 146128 | 190 | 278754 | 240 | 380211 |
| 41 | 612784 | 91 | 959041 | 141 | 149219 | 191 | 281033 | 241 | 382017 |
| 42 | 623249 | 92 | 963788 | 142 | 152288 | 192 | 283301 | 242 | 383815 |
| 43 | 633468 | 93 | 968483 | 143 | 155336 | 193 | 285557 | 243 | 385606 |
| 44 | 643453 | 94 | 973128 | 144 | 158362 | 194 | 287802 | 244 | 387390 |
| 45 | 653213 | 95 | 977724 | 145 | 161368 | 195 | 290035 | 245 | 389166 |
| 46 | 662758 | 96 | 982271 | 146 | 164353 | 196 | 292256 | 246 | 390935 |
| 47 | 672098 | 97 | 986772 | 147 | 167317 | 197 | 294466 | 247 | 392697 |
| 48 | 681241 | 98 | 991226 | 148 | 170262 | 198 | 296665 | 248 | 394452 |
| 49 | 690196 | 99 | 995635 | 149 | 173186 | 199 | 298853 | 249 | 396199 |
| 50 | 698970 | 100 | 000000 | 150 | 176091 | 200 | 301030 | 250 | 397940 |
| N. | Log. | N. | Log. | N. | Log. | N. | Log. | N. | Log. |
| 0° = 0° 0° S. 4,685 575 T. 575 | | | | | | | | | |
| 50 = 0 50 575 575 | | | | | | | | | |
| 100 = 0 1 40 575 575 | | | | | | | | | |
| 150 = 0 2 30 575 575 | | | | | | | | | |
| 200 = 0 3 20 575 575 | | | | | | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|------|--------------------|------|------|--------------|--------|--------|
| 1000 | 00 0000 | 0043 | 0087 | 0130 | 0174 | 0217 | 0260 | 0304 | 0347 | 0391 | |
| 01 | 0134 | 0177 | 0221 | 0264 | 0308 | 0351 | 0394 | 0438 | 0481 | 0524 | |
| 02 | 0868 | 0911 | 0954 | 0998 | 1041 | 1084 | 1128 | 1171 | 1214 | 1258 | |
| 03 | 1301 | 1344 | 1388 | 1431 | 1474 | 1517 | 1561 | 1604 | 1647 | 1690 | 44 |
| 04 | 1734 | 1777 | 1820 | 1863 | 1907 | 1950 | 1993 | 2036 | 2080 | 2123 | 1 4.4 |
| 05 | 00 2166 | 2209 | 2252 | 2296 | 2339 | 2382 | 2425 | 2468 | 2512 | 2555 | 2 8.8 |
| 06 | 2598 | 2641 | 2684 | 2727 | 2771 | 2814 | 2857 | 2900 | 2943 | 2986 | 3 13.2 |
| 07 | 3029 | 3073 | 3116 | 3159 | 3202 | 3245 | 3288 | 3331 | 3374 | 3417 | 4 17.6 |
| 08 | 3461 | 3504 | 3547 | 3590 | 3633 | 3676 | 3719 | 3762 | 3805 | 3848 | 5 22.0 |
| 09 | 3891 | 3934 | 3977 | 4020 | 4063 | 4106 | 4149 | 4192 | 4235 | 4278 | 6 26.4 |
| 1010 | 00 4321 | 4364 | 4407 | 4450 | 4493 | 4536 | 4579 | 4622 | 4665 | 4708 | 7 30.8 |
| 11 | 4751 | 4794 | 4837 | 4880 | 4923 | 4966 | 5009 | 5052 | 5095 | 5138 | 8 35.2 |
| 12 | 5181 | 5223 | 5266 | 5309 | 5352 | 5395 | 5438 | 5481 | 5524 | 5567 | 9 39.6 |
| 13 | 5609 | 5652 | 5695 | 5738 | 5781 | 5824 | 5867 | 5909 | 5952 | 5995 | |
| 14 | 6038 | 6081 | 6124 | 6166 | 6209 | 6252 | 6295 | 6338 | 6380 | 6423 | 43 |
| 15 | 00 6466 | 6509 | 6552 | 6594 | 6637 | 6680 | 6723 | 6765 | 6808 | 6851 | 1 4.3 |
| 16 | 6894 | 6936 | 6979 | 7022 | 7065 | 7107 | 7150 | 7193 | 7236 | 7278 | 2 8.6 |
| 17 | 7321 | 7364 | 7406 | 7449 | 7492 | 7534 | 7577 | 7620 | 7662 | 7705 | 3 12.9 |
| 18 | 7748 | 7790 | 7833 | 7876 | 7918 | 7961 | 8004 | 8046 | 8089 | 8132 | 4 17.2 |
| 19 | 8174 | 8217 | 8259 | 8302 | 8345 | 8387 | 8430 | 8472 | 8515 | 8558 | 5 21.5 |
| 1020 | 00 8600 | 8643 | 8685 | 8728 | 8770 | 8813 | 8856 | 8898 | 8941 | 8983 | 6 25.8 |
| 21 | 9026 | 9068 | 9111 | 9153 | 9196 | 9238 | 9281 | 9323 | 9366 | 9408 | 7 30.1 |
| 22 | 9451 | 9493 | 9536 | 9578 | 9621 | 9663 | 9706 | 9748 | 9791 | 9833 | 8 34.4 |
| 23 | 9876 | 9918 | 9961 | 0003 | 0045 | 0088 | 0130 | 0173 | 0215 | 0258 | 9 38.7 |
| 24 | 01 0300 | 0342 | 0385 | 0427 | 0470 | 0512 | 0554 | 0597 | 0639 | 0681 | |
| 25 | 01 0724 | 0766 | 0809 | 0851 | 0893 | 0936 | 0978 | 1020 | 1063 | 1105 | |
| 26 | 1147 | 1190 | 1232 | 1274 | 1317 | 1359 | 1401 | 1444 | 1486 | 1528 | |
| 27 | 1570 | 1613 | 1655 | 1697 | 1740 | 1782 | 1824 | 1866 | 1909 | 1951 | 42 |
| 28 | 1993 | 2035 | 2078 | 2120 | 2162 | 2204 | 2247 | 2289 | 2331 | 2373 | 1 4.2 |
| 29 | 2415 | 2458 | 2500 | 2542 | 2584 | 2626 | 2669 | 2711 | 2753 | 2795 | 2 8.4 |
| 1030 | 01 2837 | 2879 | 2922 | 2964 | 3006 | 3048 | 3090 | 3132 | 3174 | 3217 | 3 12.6 |
| 31 | 3259 | 3301 | 3343 | 3385 | 3427 | 3469 | 3511 | 3553 | 3596 | 3638 | 4 16.8 |
| 32 | 3680 | 3722 | 3764 | 3806 | 3848 | 3890 | 3932 | 3974 | 4016 | 4058 | 5 21.0 |
| 33 | 4100 | 4142 | 4184 | 4226 | 4268 | 4310 | 4353 | 4395 | 4437 | 4479 | 6 25.2 |
| 34 | 4521 | 4563 | 4605 | 4647 | 4689 | 4730 | 4772 | 4814 | 4856 | 4898 | 7 29.4 |
| 35 | 01 4940 | 4982 | 5024 | 5066 | 5108 | 5150 | 5192 | 5234 | 5276 | 5318 | 8 33.6 |
| 36 | 5360 | 5402 | 5444 | 5485 | 5527 | 5569 | 5611 | 5653 | 5695 | 5737 | 9 37.8 |
| 37 | 5779 | 5821 | 5863 | 5904 | 5946 | 5988 | 6030 | 6072 | 6114 | 6156 | |
| 38 | 6197 | 6239 | 6281 | 6323 | 6365 | 6407 | 6448 | 6490 | 6532 | 6574 | |
| 39 | 6616 | 6657 | 6699 | 6741 | 6783 | 6824 | 6866 | 6908 | 6950 | 6992 | 41 |
| 1040 | 01 7033 | 7075 | 7117 | 7159 | 7200 | 7242 | 7284 | 7326 | 7367 | 7409 | 1 4.1 |
| 41 | 7451 | 7492 | 7534 | 7576 | 7618 | 7659 | 7701 | 7743 | 7784 | 7826 | 2 8.2 |
| 42 | 7868 | 7909 | 7951 | 7993 | 8034 | 8076 | 8118 | 8159 | 8201 | 8243 | 3 12.3 |
| 43 | 8284 | 8326 | 8368 | 8409 | 8451 | 8492 | 8534 | 8576 | 8617 | 8659 | 4 16.4 |
| 44 | 8700 | 8742 | 8784 | 8825 | 8867 | 8908 | 8950 | 8992 | 9033 | 9075 | 5 20.5 |
| 45 | 01 9116 | 9158 | 9199 | 9241 | 9282 | 9324 | 9366 | 9407 | 9449 | 9490 | 6 24.6 |
| 46 | 9532 | 9573 | 9615 | 9656 | 9698 | 9739 | 9781 | 9822 | 9864 | 9905 | 7 28.7 |
| 47 | 9947 | 9988 | 0030 | 0071 | 0113 | 0154 | 0195 | 0237 | 0278 | 0320 | 8 32.8 |
| 48 | 02 0361 | 0403 | 0444 | 0486 | 0527 | 0568 | 0610 | 0651 | 0693 | 0734 | 9 36.9 |
| 49 | 0775 | 0817 | 0858 | 0900 | 0941 | 0982 | 1024 | 1065 | 1107 | 1148 | |
| 1050 | 02 1189 | 1231 | 1272 | 1313 | 1355 | 1396 | 1437 | 1479 | 1520 | 1561 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 10000" = 2° 46' 40" | | | | | 1000" = 0° 16' 40" | | | S. 4.685 573 | T. 578 | |
| | 10100 = 2 48 20 | | | | | 1010 = 0 16 50 | | | 573 | 578 | |
| | 10200 = 2 50 0 | | | | | 1020 = 0 17 0 | | | 573 | 578 | |
| | 10300 = 2 51 40 | | | | | 1030 = 0 17 10 | | | 573 | 578 | |
| | 10400 = 2 53 20 | | | | | 1040 = 0 17 20 | | | 573 | 579 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|---------------------|------|----------|------|--------|------|--------|
| 1050 | 02 1189 | 1231 | 1272 | 1313 | 1355 | 1396 | 1437 | 1479 | 1520 | 1561 | |
| 51 | 1603 | 1644 | 1685 | 1727 | 1768 | 1809 | 1851 | 1892 | 1933 | 1974 | |
| 52 | 2016 | 2057 | 2098 | 2140 | 2181 | 2222 | 2263 | 2305 | 2346 | 2387 | |
| 53 | 2428 | 2470 | 2511 | 2552 | 2593 | 2635 | 2676 | 2717 | 2758 | 2799 | |
| 54 | 2841 | 2882 | 2923 | 2964 | 3005 | 3047 | 3088 | 3129 | 3170 | 3211 | |
| 55 | 02 3252 | 3294 | 3335 | 3376 | 3417 | 3458 | 3499 | 3541 | 3582 | 3623 | 1 4.2 |
| 56 | 3664 | 3705 | 3746 | 3787 | 3828 | 3870 | 3911 | 3952 | 3993 | 4034 | 2 8.4 |
| 57 | 4075 | 4116 | 4157 | 4198 | 4239 | 4280 | 4321 | 4363 | 4404 | 4445 | 3 12.6 |
| 58 | 4486 | 4527 | 4568 | 4609 | 4650 | 4691 | 4732 | 4773 | 4814 | 4855 | 4 16.8 |
| 59 | 4896 | 4937 | 4978 | 5019 | 5060 | 5101 | 5142 | 5183 | 5224 | 5265 | 5 21.0 |
| 1060 | 02 5306 | 5347 | 5388 | 5429 | 5470 | 5511 | 5552 | 5593 | 5634 | 5674 | 6 25.2 |
| 61 | 5715 | 5756 | 5797 | 5838 | 5879 | 5920 | 5961 | 6002 | 6043 | 6084 | 7 29.4 |
| 62 | 6125 | 6165 | 6206 | 6247 | 6288 | 6329 | 6370 | 6411 | 6452 | 6492 | 8 33.6 |
| 63 | 6533 | 6574 | 6615 | 6656 | 6697 | 6737 | 6778 | 6819 | 6860 | 6901 | 9 37.8 |
| 64 | 6942 | 6982 | 7023 | 7064 | 7105 | 7146 | 7186 | 7227 | 7268 | 7309 | |
| 65 | 02 7350 | 7390 | 7431 | 7472 | 7513 | 7553 | 7594 | 7635 | 7676 | 7716 | |
| 66 | 7757 | 7798 | 7839 | 7879 | 7920 | 7961 | 8002 | 8042 | 8083 | 8124 | 41 |
| 67 | 8164 | 8205 | 8246 | 8287 | 8327 | 8368 | 8409 | 8449 | 8490 | 8531 | 1 4.1 |
| 68 | 8571 | 8612 | 8653 | 8693 | 8734 | 8775 | 8815 | 8856 | 8896 | 8937 | 2 8.2 |
| 69 | 8978 | 9018 | 9059 | 9100 | 9140 | 9181 | 9221 | 9262 | 9303 | 9343 | 3 12.3 |
| 1070 | 02 9384 | 9424 | 9465 | 9506 | 9546 | 9587 | 9627 | 9668 | 9708 | 9749 | 4 16.4 |
| 71 | 9789 | 9830 | 9871 | 9911 | 9952 | 9992 | 0033 | 0073 | 0114 | 0154 | 5 20.5 |
| 72 | 03 0195 | 0235 | 0276 | 0316 | 0357 | 0397 | 0438 | 0478 | 0519 | 0559 | 6 24.6 |
| 73 | 0600 | 0640 | 0681 | 0721 | 0762 | 0802 | 0843 | 0883 | 0923 | 0964 | 7 28.7 |
| 74 | 1004 | 1045 | 1085 | 1126 | 1166 | 1206 | 1247 | 1287 | 1328 | 1368 | 8 32.8 |
| 75 | 03 1408 | 1449 | 1489 | 1530 | 1570 | 1610 | 1651 | 1691 | 1732 | 1772 | 9 36.9 |
| 76 | 1812 | 1853 | 1893 | 1933 | 1974 | 2014 | 2054 | 2095 | 2135 | 2175 | |
| 77 | 2216 | 2256 | 2296 | 2337 | 2377 | 2417 | 2458 | 2498 | 2538 | 2578 | |
| 78 | 2619 | 2659 | 2699 | 2740 | 2780 | 2820 | 2860 | 2901 | 2941 | 2981 | 40 |
| 79 | 3021 | 3062 | 3102 | 3142 | 3182 | 3223 | 3263 | 3303 | 3343 | 3384 | 1 4.0 |
| 1080 | 03 3424 | 3464 | 3504 | 3544 | 3585 | 3625 | 3665 | 3705 | 3745 | 3786 | 2 8.0 |
| 81 | 3826 | 3866 | 3906 | 3946 | 3986 | 4027 | 4067 | 4107 | 4147 | 4187 | 3 12.0 |
| 82 | 4227 | 4267 | 4308 | 4348 | 4388 | 4428 | 4468 | 4508 | 4548 | 4588 | 4 16.0 |
| 83 | 4628 | 4669 | 4709 | 4749 | 4789 | 4829 | 4869 | 4909 | 4949 | 4989 | 5 20.0 |
| 84 | 5029 | 5069 | 5109 | 5149 | 5190 | 5230 | 5270 | 5310 | 5350 | 5390 | 6 24.0 |
| 85 | 03 5430 | 5470 | 5510 | 5550 | 5590 | 5630 | 5670 | 5710 | 5750 | 5790 | 7 28.0 |
| 86 | 5830 | 5870 | 5910 | 5950 | 5990 | 6030 | 6070 | 6110 | 6150 | 6190 | 8 32.0 |
| 87 | 6230 | 6269 | 6309 | 6349 | 6389 | 6429 | 6469 | 6509 | 6549 | 6589 | 9 36.0 |
| 88 | 6629 | 6669 | 6709 | 6749 | 6789 | 6828 | 6868 | 6908 | 6948 | 6988 | |
| 89 | 7028 | 7068 | 7108 | 7148 | 7187 | 7227 | 7267 | 7307 | 7347 | 7387 | 39 |
| 1090 | 03 7426 | 7466 | 7506 | 7546 | 7586 | 7626 | 7665 | 7705 | 7745 | 7785 | 1 3.9 |
| 91 | 7825 | 7865 | 7904 | 7944 | 7984 | 8024 | 8064 | 8103 | 8143 | 8183 | 2 7.8 |
| 92 | 8223 | 8262 | 8302 | 8342 | 8382 | 8421 | 8461 | 8501 | 8541 | 8580 | 3 11.7 |
| 93 | 8620 | 8660 | 8700 | 8739 | 8779 | 8819 | 8859 | 8898 | 8938 | 8978 | 4 15.6 |
| 94 | 9017 | 9057 | 9097 | 9136 | 9176 | 9216 | 9255 | 9295 | 9335 | 9374 | 5 19.5 |
| 95 | 03 9414 | 9454 | 9493 | 9533 | 9573 | 9612 | 9652 | 9692 | 9731 | 9771 | 6 23.4 |
| 96 | 9811 | 9850 | 9890 | 9929 | 9969 | 0009 | 0048 | 0088 | 0127 | 0167 | 7 27.3 |
| 97 | 04 0207 | 0246 | 0286 | 0325 | 0365 | 0405 | 0444 | 0484 | 0523 | 0563 | 8 31.2 |
| 98 | 0602 | 0642 | 0681 | 0721 | 0761 | 0800 | 0840 | 0879 | 0919 | 0958 | 9 35.1 |
| 99 | 0998 | 1037 | 1077 | 1116 | 1156 | 1195 | 1235 | 1274 | 1314 | 1353 | |
| 1100 | 04 1393 | 1432 | 1472 | 1511 | 1551 | 1590 | 1630 | 1669 | 1708 | 1748 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 10500" = 2° 55' 0" | | | | 10500" = 0° 17' 30" | | S. 4,685 | 573 | T. 579 | | |
| | 10600" = 2 56 40 | | | | 10600" = 0 17 40 | | | 573 | 579 | | |
| | 10700" = 2 58 20 | | | | 10700" = 0 17 50 | | | 573 | 579 | | |
| | 10800" = 3 0 0 | | | | 10800" = 0 18 0 | | | 573 | 579 | | |
| | 10900" = 3 1 40 | | | | 10900" = 0 18 10 | | | 573 | 579 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|------|---------------------|------|----------|------|--------|--------|
| 1100 | 04 1395 | 1432 | 1472 | 1511 | 1551 | 1590 | 1630 | 1669 | 1708 | 1748 | |
| 01 | 1787 | 1827 | 1866 | 1906 | 1945 | 1985 | 2024 | 2063 | 2103 | 2142 | |
| 02 | 2182 | 2221 | 2260 | 2300 | 2339 | 2379 | 2418 | 2457 | 2497 | 2536 | |
| 03 | 2576 | 2615 | 2654 | 2694 | 2733 | 2772 | 2812 | 2851 | 2890 | 2930 | 40 |
| 04 | 2969 | 3008 | 3048 | 3087 | 3126 | 3166 | 3205 | 3244 | 3284 | 3323 | 1 4.0 |
| 05 | 04 3362 | 3402 | 3441 | 3480 | 3519 | 3559 | 3598 | 3637 | 3677 | 3716 | 2 8.0 |
| 06 | 3755 | 3794 | 3834 | 3873 | 3912 | 3951 | 3991 | 4030 | 4069 | 4108 | 3 12.0 |
| 07 | 4148 | 4187 | 4226 | 4265 | 4305 | 4344 | 4383 | 4422 | 4461 | 4501 | 4 16.0 |
| 08 | 4540 | 4579 | 4618 | 4657 | 4697 | 4736 | 4775 | 4814 | 4853 | 4892 | 5 20.0 |
| 09 | 4932 | 4971 | 5010 | 5049 | 5088 | 5127 | 5166 | 5206 | 5245 | 5284 | 6 24.0 |
| 1110 | 04 5323 | 5362 | 5401 | 5440 | 5479 | 5519 | 5558 | 5597 | 5636 | 5675 | 7 28.0 |
| 11 | 5714 | 5753 | 5792 | 5831 | 5870 | 5909 | 5949 | 5988 | 6027 | 6066 | 8 32.0 |
| 12 | 6105 | 6144 | 6183 | 6222 | 6261 | 6300 | 6339 | 6378 | 6417 | 6456 | 9 36.0 |
| 13 | 6495 | 6534 | 6573 | 6612 | 6651 | 6690 | 6729 | 6768 | 6807 | 6846 | |
| 14 | 6885 | 6924 | 6963 | 7002 | 7041 | 7080 | 7119 | 7158 | 7197 | 7236 | |
| 15 | 04 7275 | 7314 | 7353 | 7392 | 7431 | 7470 | 7509 | 7547 | 7586 | 7625 | 39 |
| 16 | 7664 | 7703 | 7742 | 7781 | 7820 | 7859 | 7898 | 7937 | 7975 | 8014 | 1 3.9 |
| 17 | 8053 | 8092 | 8131 | 8170 | 8209 | 8248 | 8286 | 8325 | 8364 | 8403 | 2 7.8 |
| 18 | 8442 | 8481 | 8519 | 8558 | 8597 | 8636 | 8675 | 8714 | 8752 | 8791 | 3 11.7 |
| 19 | 8830 | 8869 | 8908 | 8947 | 8985 | 9024 | 9063 | 9102 | 9140 | 9179 | 4 15.6 |
| 1120 | 04 9218 | 9257 | 9296 | 9334 | 9373 | 9412 | 9451 | 9489 | 9528 | 9567 | 5 19.5 |
| 21 | 9606 | 9644 | 9683 | 9722 | 9761 | 9799 | 9838 | 9877 | 9915 | 9954 | 6 23.4 |
| 22 | 9993 | 0032 | 0070 | 0109 | 0148 | 0186 | 0225 | 0264 | 0302 | 0341 | 7 27.3 |
| 23 | 05 0380 | 0418 | 0457 | 0496 | 0534 | 0573 | 0612 | 0650 | 0689 | 0728 | 8 31.2 |
| 24 | 0766 | 0805 | 0844 | 0882 | 0921 | 0959 | 0998 | 1037 | 1075 | 1114 | 9 35.1 |
| 25 | 05 1153 | 1191 | 1230 | 1268 | 1307 | 1345 | 1384 | 1423 | 1461 | 1500 | |
| 26 | 1538 | 1577 | 1616 | 1654 | 1693 | 1731 | 1770 | 1808 | 1847 | 1885 | |
| 27 | 1924 | 1962 | 2001 | 2040 | 2078 | 2117 | 2155 | 2194 | 2232 | 2271 | 38 |
| 28 | 2309 | 2348 | 2386 | 2425 | 2463 | 2502 | 2540 | 2579 | 2617 | 2655 | 1 3.8 |
| 29 | 2694 | 2732 | 2771 | 2809 | 2848 | 2886 | 2925 | 2963 | 3002 | 3040 | 2 7.6 |
| 1130 | 05 3078 | 3117 | 3155 | 3194 | 3232 | 3271 | 3309 | 3347 | 3386 | 3424 | 3 11.4 |
| 31 | 3463 | 3501 | 3539 | 3578 | 3616 | 3655 | 3693 | 3731 | 3770 | 3808 | 4 15.2 |
| 32 | 3846 | 3885 | 3923 | 3962 | 4000 | 4038 | 4077 | 4115 | 4153 | 4192 | 5 19.0 |
| 33 | 4230 | 4268 | 4307 | 4345 | 4383 | 4422 | 4460 | 4498 | 4536 | 4575 | 6 22.8 |
| 34 | 4613 | 4651 | 4690 | 4728 | 4766 | 4805 | 4843 | 4881 | 4919 | 4958 | 7 26.6 |
| 35 | 05 4996 | 5034 | 5072 | 5111 | 5149 | 5187 | 5225 | 5264 | 5302 | 5340 | 8 30.4 |
| 36 | 5378 | 5417 | 5455 | 5493 | 5531 | 5569 | 5608 | 5646 | 5684 | 5722 | 9 34.2 |
| 37 | 5760 | 5799 | 5837 | 5875 | 5913 | 5951 | 5990 | 6028 | 6066 | 6104 | |
| 38 | 6142 | 6180 | 6219 | 6257 | 6295 | 6333 | 6371 | 6409 | 6447 | 6486 | |
| 39 | 6524 | 6562 | 6600 | 6638 | 6676 | 6714 | 6752 | 6791 | 6829 | 6867 | 37 |
| 1140 | 05 6905 | 6943 | 6981 | 7019 | 7057 | 7095 | 7133 | 7171 | 7210 | 7248 | 1 3.7 |
| 41 | 7286 | 7324 | 7362 | 7400 | 7438 | 7476 | 7514 | 7552 | 7590 | 7628 | 2 7.4 |
| 42 | 7666 | 7704 | 7742 | 7780 | 7818 | 7856 | 7894 | 7932 | 7970 | 8008 | 3 11.1 |
| 43 | 8046 | 8084 | 8122 | 8160 | 8198 | 8236 | 8274 | 8312 | 8350 | 8388 | 4 14.8 |
| 44 | 8426 | 8464 | 8502 | 8540 | 8578 | 8616 | 8654 | 8692 | 8730 | 8768 | 5 18.5 |
| 45 | 05 8805 | 8843 | 8881 | 8919 | 8957 | 8995 | 9033 | 9071 | 9109 | 9147 | 6 22.2 |
| 46 | 9185 | 9223 | 9260 | 9298 | 9336 | 9374 | 9412 | 9450 | 9488 | 9526 | 7 25.9 |
| 47 | 9563 | 9601 | 9639 | 9677 | 9715 | 9753 | 9791 | 9828 | 9866 | 9904 | 8 29.6 |
| 48 | 9942 | 9980 | 0018 | 0055 | 0093 | 0131 | 0169 | 0207 | 0244 | 0282 | 9 33.3 |
| 49 | 06 0320 | 0358 | 0396 | 0433 | 0471 | 0509 | 0547 | 0585 | 0622 | 0660 | |
| 1150 | 06 0698 | 0736 | 0773 | 0811 | 0849 | 0887 | 0924 | 0962 | 1000 | 1038 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 11000" = 3° 3' 20" | | | | | 11000" = 0° 18' 20" | | S. 4.685 | 573 | T. 579 | |
| | 11100 = 3 5 0 | | | | | 1110 = 0 18 30 | | | 573 | 579 | |
| | 11200 = 3 6 40 | | | | | 1120 = 0 18 40 | | | | 573 | 579 |
| | 11300 = 3 8 20 | | | | | 1130 = 0 18 50 | | | | 573 | 579 |
| | 11400 = 3 10 0 | | | | | 1140 = 0 19 0 | | | | 573 | 579 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|--------------------|------|------|----------|------|--------|--------|
| 1150 | 06 0698 | 0736 | 0773 | 0811 | 0849 | 0887 | 0924 | 0962 | 1000 | 1038 | |
| 51 | 1075 | 1113 | 1151 | 1189 | 1226 | 1264 | 1302 | 1339 | 1377 | 1415 | |
| 52 | 1452 | 1490 | 1528 | 1566 | 1603 | 1641 | 1679 | 1716 | 1754 | 1792 | |
| 53 | 1829 | 1867 | 1905 | 1942 | 1980 | 2018 | 2055 | 2093 | 2131 | 2168 | |
| 54 | 2206 | 2243 | 2281 | 2319 | 2356 | 2394 | 2432 | 2469 | 2507 | 2544 | |
| 55 | 06 2582 | 2620 | 2657 | 2695 | 2732 | 2770 | 2808 | 2845 | 2883 | 2920 | |
| 56 | 2958 | 2995 | 3033 | 3071 | 3108 | 3146 | 3183 | 3221 | 3258 | 3296 | 38 |
| 57 | 3333 | 3371 | 3408 | 3446 | 3483 | 3521 | 3559 | 3596 | 3634 | 3671 | 1 3.8 |
| 58 | 3709 | 3746 | 3784 | 3821 | 3859 | 3896 | 3934 | 3971 | 4008 | 4046 | 2 7.6 |
| 59 | 4083 | 4121 | 4158 | 4196 | 4233 | 4271 | 4308 | 4346 | 4383 | 4421 | 3 11.4 |
| 1160 | 06 4458 | 4495 | 4533 | 4570 | 4608 | 4645 | 4683 | 4720 | 4757 | 4795 | 4 15.2 |
| 61 | 4832 | 4870 | 4907 | 4944 | 4982 | 5019 | 5057 | 5094 | 5131 | 5169 | 5 19.0 |
| 62 | 5206 | 5244 | 5281 | 5318 | 5356 | 5393 | 5430 | 5468 | 5505 | 5542 | 6 22.8 |
| 63 | 5580 | 5617 | 5654 | 5692 | 5729 | 5766 | 5804 | 5841 | 5878 | 5916 | 7 26.6 |
| 64 | 5953 | 5990 | 6028 | 6065 | 6102 | 6139 | 6177 | 6214 | 6251 | 6289 | 8 30.4 |
| 65 | 06 6326 | 6363 | 6400 | 6438 | 6475 | 6512 | 6550 | 6587 | 6624 | 6661 | 9 34.2 |
| 66 | 6699 | 6736 | 6773 | 6810 | 6848 | 6885 | 6922 | 6959 | 6996 | 7034 | |
| 67 | 7071 | 7108 | 7145 | 7182 | 7220 | 7257 | 7294 | 7331 | 7368 | 7406 | |
| 68 | 7443 | 7480 | 7517 | 7554 | 7592 | 7629 | 7666 | 7703 | 7740 | 7777 | |
| 69 | 7815 | 7852 | 7889 | 7926 | 7963 | 8000 | 8037 | 8074 | 8112 | 8149 | |
| 1170 | 06 8186 | 8223 | 8260 | 8297 | 8334 | 8371 | 8409 | 8446 | 8483 | 8520 | |
| 71 | 8557 | 8594 | 8631 | 8668 | 8705 | 8742 | 8779 | 8816 | 8853 | 8891 | 37 |
| 72 | 8928 | 8965 | 9002 | 9039 | 9076 | 9113 | 9150 | 9187 | 9224 | 9261 | 1 3.7 |
| 73 | 9298 | 9335 | 9372 | 9409 | 9446 | 9483 | 9520 | 9557 | 9594 | 9631 | 2 7.4 |
| 74 | 9668 | 9705 | 9742 | 9779 | 9816 | 9853 | 9890 | 9927 | 9964 | 10001 | 3 11.1 |
| 75 | 07 0038 | 0075 | 0112 | 0149 | 0186 | 0223 | 0260 | 0297 | 0333 | 0370 | 4 14.8 |
| 76 | 0407 | 0444 | 0481 | 0518 | 0555 | 0592 | 0629 | 0666 | 0703 | 0740 | 5 18.5 |
| 77 | 0776 | 0813 | 0850 | 0887 | 0924 | 0961 | 0998 | 1035 | 1072 | 1108 | 6 22.2 |
| 78 | 1145 | 1182 | 1219 | 1256 | 1293 | 1330 | 1366 | 1403 | 1440 | 1477 | 7 25.9 |
| 79 | 1514 | 1551 | 1587 | 1624 | 1661 | 1698 | 1735 | 1772 | 1808 | 1845 | 8 29.6 |
| 1180 | 07 1882 | 1919 | 1956 | 1992 | 2029 | 2066 | 2103 | 2140 | 2176 | 2213 | 9 33.3 |
| 81 | 2250 | 2287 | 2323 | 2360 | 2397 | 2434 | 2470 | 2507 | 2544 | 2581 | |
| 82 | 2617 | 2654 | 2691 | 2728 | 2764 | 2801 | 2837 | 2875 | 2911 | 2948 | |
| 83 | 2985 | 3021 | 3058 | 3095 | 3132 | 3168 | 3205 | 3242 | 3278 | 3315 | |
| 84 | 3352 | 3388 | 3425 | 3462 | 3498 | 3535 | 3572 | 3608 | 3645 | 3682 | |
| 85 | 07 3718 | 3755 | 3792 | 3828 | 3865 | 3902 | 3938 | 3975 | 4011 | 4048 | |
| 86 | 4085 | 4121 | 4158 | 4195 | 4231 | 4268 | 4304 | 4341 | 4378 | 4414 | 36 |
| 87 | 4451 | 4487 | 4524 | 4560 | 4597 | 4634 | 4670 | 4707 | 4743 | 4780 | 1 3.6 |
| 88 | 4816 | 4853 | 4890 | 4926 | 4963 | 4999 | 5036 | 5072 | 5109 | 5145 | 2 7.2 |
| 89 | 5182 | 5218 | 5255 | 5291 | 5328 | 5364 | 5401 | 5437 | 5474 | 5510 | 3 10.8 |
| 1190 | 07 5547 | 5583 | 5620 | 5656 | 5693 | 5729 | 5766 | 5802 | 5839 | 5875 | 4 14.4 |
| 91 | 5912 | 5948 | 5985 | 6021 | 6058 | 6094 | 6130 | 6167 | 6203 | 6240 | 5 18.0 |
| 92 | 6276 | 6313 | 6349 | 6386 | 6422 | 6458 | 6495 | 6531 | 6568 | 6604 | 6 21.6 |
| 93 | 6640 | 6677 | 6713 | 6750 | 6786 | 6822 | 6859 | 6895 | 6932 | 6968 | 7 25.2 |
| 94 | 7004 | 7041 | 7077 | 7113 | 7150 | 7186 | 7223 | 7259 | 7295 | 7332 | 8 28.8 |
| 95 | 07 7368 | 7404 | 7441 | 7477 | 7513 | 7550 | 7586 | 7622 | 7659 | 7695 | 9 32.4 |
| 96 | 7731 | 7767 | 7804 | 7840 | 7876 | 7913 | 7949 | 7985 | 8022 | 8058 | |
| 97 | 8094 | 8130 | 8167 | 8203 | 8239 | 8276 | 8312 | 8348 | 8384 | 8421 | |
| 98 | 8457 | 8493 | 8529 | 8566 | 8602 | 8638 | 8674 | 8711 | 8747 | 8783 | |
| 99 | 8819 | 8855 | 8892 | 8928 | 8964 | 9000 | 9036 | 9073 | 9109 | 9145 | |
| 1200 | 07 9181 | 9217 | 9254 | 9290 | 9326 | 9362 | 9398 | 9435 | 9471 | 9507 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 11500" = 3° 11' 40" | | | | 1150" = 0° 19' 10" | | | S. 4.685 | 573 | T. 579 | |
| | 11600 = 3 13 20 | | | | 1160 = 0 19 20 | | | | 573 | 579 | |
| | 11700 = 3 15 0 | | | | 1170 = 0 19 30 | | | | 573 | 580 | |
| | 11800 = 3 16 40 | | | | 1180 = 0 19 40 | | | | 572 | 580 | |
| | 11900 = 3 18 20 | | | | 1190 = 0 19 50 | | | | 572 | 580 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|--------------------|------|------|---------------------|------|------|------|--------|
| 1200 | 07 9181 | 9217 | 9254 | 9290 | 9326 | 9362 | 9398 | 9435 | 9471 | 9507 | |
| 01 | 9543 | 9579 | 9615 | 9651 | 9688 | 9724 | 9760 | 9796 | 9832 | 9868 | |
| 02 | 9904 | 9941 | 9977 | 0013 | 0049 | 0085 | 0121 | 0157 | 0193 | 0230 | |
| 03 | 08 0266 | 0302 | 0338 | 0374 | 0410 | 0446 | 0482 | 0518 | 0554 | 0590 | 37 |
| 04 | 0626 | 0663 | 0699 | 0735 | 0771 | 0807 | 0843 | 0879 | 0915 | 0951 | 1 3.7 |
| 05 | 08 0987 | 1023 | 1059 | 1095 | 1131 | 1167 | 1203 | 1239 | 1275 | 1311 | 2 7.4 |
| 06 | 1347 | 1383 | 1419 | 1455 | 1491 | 1527 | 1563 | 1599 | 1635 | 1671 | 3 11.1 |
| 07 | 1707 | 1743 | 1779 | 1815 | 1851 | 1887 | 1923 | 1959 | 1995 | 2031 | 4 14.8 |
| 08 | 2067 | 2103 | 2139 | 2175 | 2211 | 2247 | 2283 | 2319 | 2354 | 2390 | 5 18.5 |
| 09 | 2426 | 2462 | 2498 | 2534 | 2570 | 2606 | 2642 | 2678 | 2714 | 2749 | 6 22.2 |
| 1210 | 08 2785 | 2821 | 2857 | 2893 | 2929 | 2965 | 3001 | 3037 | 3072 | 3108 | 7 25.9 |
| 11 | 3144 | 3180 | 3216 | 3252 | 3288 | 3323 | 3359 | 3395 | 3431 | 3467 | 8 29.6 |
| 12 | 3503 | 3538 | 3574 | 3610 | 3646 | 3682 | 3718 | 3753 | 3789 | 3825 | 9 33.3 |
| 13 | 3861 | 3897 | 3932 | 3968 | 4004 | 4040 | 4076 | 4111 | 4147 | 4183 | |
| 14 | 4219 | 4254 | 4290 | 4326 | 4362 | 4398 | 4433 | 4469 | 4505 | 4541 | 36 |
| 15 | 08 4576 | 4612 | 4648 | 4683 | 4719 | 4755 | 4791 | 4826 | 4862 | 4898 | 1 3.6 |
| 16 | 4934 | 4969 | 5005 | 5041 | 5076 | 5112 | 5148 | 5184 | 5219 | 5255 | 2 7.2 |
| 17 | 5291 | 5326 | 5362 | 5398 | 5433 | 5469 | 5505 | 5540 | 5576 | 5612 | 3 10.8 |
| 18 | 5647 | 5683 | 5719 | 5754 | 5790 | 5826 | 5861 | 5897 | 5932 | 5968 | 4 14.4 |
| 19 | 6004 | 6039 | 6075 | 6111 | 6146 | 6182 | 6217 | 6253 | 6289 | 6324 | 5 18.0 |
| 1220 | 08 6360 | 6395 | 6431 | 6467 | 6502 | 6538 | 6573 | 6609 | 6645 | 6680 | 6 21.6 |
| 21 | 6716 | 6751 | 6787 | 6822 | 6858 | 6893 | 6929 | 6965 | 7000 | 7036 | 7 25.2 |
| 22 | 7071 | 7107 | 7142 | 7178 | 7213 | 7249 | 7284 | 7320 | 7355 | 7391 | 8 28.8 |
| 23 | 7426 | 7462 | 7497 | 7533 | 7568 | 7604 | 7639 | 7675 | 7710 | 7746 | 9 32.4 |
| 24 | 7781 | 7817 | 7852 | 7888 | 7923 | 7959 | 7994 | 8030 | 8065 | 8101 | |
| 25 | 08 8136 | 8172 | 8207 | 8242 | 8278 | 8313 | 8349 | 8384 | 8420 | 8455 | |
| 26 | 8490 | 8526 | 8561 | 8597 | 8632 | 8668 | 8703 | 8738 | 8774 | 8809 | |
| 27 | 8845 | 8880 | 8915 | 8951 | 8986 | 9022 | 9057 | 9092 | 9128 | 9163 | 35 |
| 28 | 9198 | 9234 | 9269 | 9304 | 9340 | 9375 | 9411 | 9446 | 9481 | 9517 | 1 3.5 |
| 29 | 9552 | 9587 | 9623 | 9658 | 9693 | 9729 | 9764 | 9799 | 9834 | 9870 | 2 7.0 |
| 1230 | 08 9905 | 9940 | 9976 | 0011 | 0046 | 0082 | 0117 | 0152 | 0187 | 0223 | 3 10.5 |
| 31 | 09 0258 | 0293 | 0329 | 0364 | 0399 | 0434 | 0470 | 0505 | 0540 | 0575 | 4 14.0 |
| 32 | 0611 | 0646 | 0681 | 0716 | 0752 | 0787 | 0822 | 0857 | 0893 | 0928 | 5 17.5 |
| 33 | 0963 | 0998 | 1034 | 1069 | 1104 | 1139 | 1174 | 1210 | 1245 | 1280 | 6 21.0 |
| 34 | 1315 | 1350 | 1386 | 1421 | 1456 | 1491 | 1526 | 1561 | 1597 | 1632 | 7 24.5 |
| 35 | 09 1667 | 1702 | 1737 | 1772 | 1808 | 1843 | 1878 | 1913 | 1948 | 1983 | 8 28.0 |
| 36 | 2018 | 2054 | 2089 | 2124 | 2159 | 2194 | 2229 | 2264 | 2299 | 2335 | 9 31.5 |
| 37 | 2370 | 2405 | 2440 | 2475 | 2510 | 2545 | 2580 | 2615 | 2650 | 2686 | |
| 38 | 2721 | 2756 | 2791 | 2826 | 2861 | 2896 | 2931 | 2966 | 3001 | 3036 | |
| 39 | 3071 | 3106 | 3141 | 3176 | 3211 | 3247 | 3282 | 3317 | 3352 | 3387 | |
| 1240 | 09 3422 | 3457 | 3492 | 3527 | 3562 | 3597 | 3632 | 3667 | 3702 | 3737 | 34 |
| 41 | 3772 | 3807 | 3842 | 3877 | 3912 | 3947 | 3982 | 4017 | 4052 | 4087 | 1 3.4 |
| 42 | 4122 | 4157 | 4192 | 4226 | 4261 | 4296 | 4331 | 4366 | 4401 | 4436 | 2 6.8 |
| 43 | 4471 | 4506 | 4541 | 4576 | 4611 | 4646 | 4681 | 4716 | 4751 | 4785 | 3 10.2 |
| 44 | 4820 | 4855 | 4890 | 4925 | 4960 | 4995 | 5030 | 5065 | 5100 | 5134 | 4 13.6 |
| 45 | 09 5169 | 5204 | 5239 | 5274 | 5309 | 5344 | 5379 | 5413 | 5448 | 5483 | 5 17.0 |
| 46 | 5518 | 5553 | 5588 | 5623 | 5657 | 5692 | 5727 | 5762 | 5797 | 5832 | 6 20.4 |
| 47 | 5866 | 5901 | 5936 | 5971 | 6006 | 6041 | 6075 | 6110 | 6145 | 6180 | 7 23.8 |
| 48 | 6215 | 6249 | 6284 | 6319 | 6354 | 6389 | 6423 | 6458 | 6493 | 6528 | 8 27.2 |
| 49 | 6562 | 6597 | 6632 | 6667 | 6702 | 6736 | 6771 | 6806 | 6841 | 6875 | 9 30.6 |
| 1250 | 09 6910 | 6945 | 6979 | 7014 | 7049 | 7084 | 7118 | 7153 | 7188 | 7223 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 12000" | = 3° 20' 0" | | | 12000" = 0° 20' 0" | | | S. 4.685 572 T. 580 | | | | |
| 12100 | = 3 21 40 | | | 12100 = 0 20 10 | | | 572 580 | | | | |
| 12200 | = 3 23 20 | | | 12200 = 0 20 20 | | | 572 580 | | | | |
| 12300 | = 3 25 0 | | | 12300 = 0 20 30 | | | 572 580 | | | | |
| 12400 | = 3 26 40 | | | 12400 = 0 20 40 | | | 572 580 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|-------|-------|-------|-------|-------|-------|-------|-----|
| 1250 | 09 6910 | 6945 | 6979 | 7014 | 7049 | 7084 | 7118 | 7153 | 7188 | 7223 | |
| 51 | 7257 | 7292 | 7327 | 7361 | 7396 | 7431 | 7466 | 7500 | 7535 | 7570 | |
| 52 | 7604 | 7639 | 7674 | 7708 | 7743 | 7778 | 7812 | 7847 | 7882 | 7916 | |
| 53 | 7951 | 7986 | 8020 | 8055 | 8090 | 8124 | 8159 | 8194 | 8228 | 8263 | |
| 54 | 8298 | 8332 | 8367 | 8401 | 8436 | 8471 | 8505 | 8540 | 8575 | 8609 | |
| 55 | 09 8644 | 8678 | 8713 | 8748 | 8782 | 8817 | 8851 | 8886 | 8920 | 8955 | |
| 56 | 8990 | 9024 | 9059 | 9093 | 9128 | 9162 | 9197 | 9232 | 9266 | 9301 | |
| 57 | 9335 | 9370 | 9404 | 9439 | 9473 | 9508 | 9543 | 9577 | 9612 | 9646 | |
| 58 | 9681 | 9715 | 9750 | 9784 | 9819 | 9853 | 9888 | 9922 | 9957 | 9991 | |
| 59 | 10 0026 | 0060 | 0095 | 0129 | 0164 | 0198 | 0233 | 0267 | 0302 | 0336 | |
| 1260 | 10 0371 | 0405 | 0439 | 0474 | 0508 | 0543 | 0577 | 0612 | 0646 | 0681 | |
| 61 | 0715 | 0750 | 0784 | 0818 | 0853 | 0887 | 0922 | 0956 | 0991 | 1025 | |
| 62 | 1059 | 1094 | 1128 | 1163 | 1197 | 1231 | 1266 | 1300 | 1335 | 1369 | |
| 63 | 1403 | 1437 | 1472 | 1506 | 1541 | 1575 | 1610 | 1644 | 1678 | 1713 | |
| 64 | 1747 | 1781 | 1816 | 1850 | 1884 | 1919 | 1953 | 1988 | 2022 | 2056 | |
| 65 | 10 2091 | 2125 | 2159 | 2194 | 2228 | 2262 | 2296 | 2331 | 2365 | 2399 | |
| 66 | 2434 | 2468 | 2502 | 2537 | 2571 | 2605 | 2639 | 2674 | 2708 | 2742 | |
| 67 | 2777 | 2811 | 2845 | 2879 | 2914 | 2948 | 2982 | 3016 | 3051 | 3085 | |
| 68 | 3119 | 3154 | 3188 | 3222 | 3256 | 3290 | 3325 | 3359 | 3393 | 3427 | |
| 69 | 3462 | 3496 | 3530 | 3564 | 3598 | 3633 | 3667 | 3701 | 3735 | 3770 | |
| 1270 | 10 3804 | 3838 | 3872 | 3906 | 3940 | 3975 | 4009 | 4043 | 4077 | 4111 | |
| 71 | 4146 | 4180 | 4214 | 4248 | 4282 | 4316 | 4351 | 4385 | 4419 | 4453 | |
| 72 | 4487 | 4521 | 4555 | 4590 | 4624 | 4658 | 4692 | 4726 | 4760 | 4794 | |
| 73 | 4828 | 4863 | 4897 | 4931 | 4965 | 4999 | 5033 | 5067 | 5101 | 5135 | |
| 74 | 5169 | 5204 | 5238 | 5272 | 5306 | 5340 | 5374 | 5408 | 5442 | 5476 | |
| 75 | 10 5510 | 5544 | 5578 | 5612 | 5646 | 5680 | 5715 | 5749 | 5783 | 5817 | |
| 76 | 5851 | 5885 | 5919 | 5953 | 5987 | 6021 | 6055 | 6089 | 6123 | 6157 | |
| 77 | 6191 | 6225 | 6259 | 6293 | 6327 | 6361 | 6395 | 6429 | 6463 | 6497 | |
| 78 | 6531 | 6565 | 6599 | 6633 | 6667 | 6701 | 6735 | 6769 | 6803 | 6837 | |
| 79 | 6871 | 6904 | 6938 | 6972 | 7006 | 7040 | 7074 | 7108 | 7142 | 7176 | |
| 1280 | 10 7210 | 7244 | 7278 | 7312 | 7346 | 7380 | 7413 | 7447 | 7481 | 7515 | |
| 81 | 7549 | 7583 | 7617 | 7651 | 7685 | 7719 | 7752 | 7786 | 7820 | 7854 | |
| 82 | 7888 | 7922 | 7956 | 7990 | 8024 | 8057 | 8091 | 8125 | 8159 | 8193 | |
| 83 | 8227 | 8261 | 8294 | 8328 | 8362 | 8396 | 8430 | 8464 | 8497 | 8531 | |
| 84 | 8565 | 8599 | 8633 | 8666 | 8700 | 8734 | 8768 | 8802 | 8836 | 8869 | |
| 85 | 10 8903 | 8937 | 8971 | 9005 | 9038 | 9072 | 9106 | 9140 | 9173 | 9207 | |
| 86 | 9241 | 9275 | 9309 | 9342 | 9376 | 9410 | 9444 | 9477 | 9511 | 9545 | |
| 87 | 9579 | 9612 | 9646 | 9680 | 9714 | 9747 | 9781 | 9815 | 9848 | 9882 | |
| 88 | 9916 | 9950 | 9983 | 10017 | 10051 | 10084 | 10118 | 10152 | 10186 | 10219 | |
| 89 | 11 0253 | 0287 | 0320 | 0354 | 0388 | 0421 | 0455 | 0489 | 0522 | 0556 | |
| 1290 | 11 0590 | 0623 | 0657 | 0691 | 0724 | 0758 | 0792 | 0825 | 0859 | 0893 | |
| 91 | 0926 | 0960 | 0994 | 1027 | 1061 | 1094 | 1128 | 1162 | 1195 | 1229 | |
| 92 | 1263 | 1296 | 1330 | 1363 | 1397 | 1431 | 1464 | 1498 | 1531 | 1565 | |
| 93 | 1599 | 1632 | 1666 | 1699 | 1733 | 1766 | 1800 | 1834 | 1867 | 1901 | |
| 94 | 1934 | 1968 | 2001 | 2035 | 2069 | 2102 | 2136 | 2169 | 2203 | 2236 | |
| 95 | 11 2270 | 2303 | 2337 | 2370 | 2404 | 2437 | 2471 | 2504 | 2538 | 2571 | |
| 96 | 2605 | 2639 | 2672 | 2706 | 2739 | 2773 | 2806 | 2840 | 2873 | 2906 | |
| 97 | 2940 | 2973 | 3007 | 3040 | 3074 | 3107 | 3141 | 3174 | 3208 | 3241 | |
| 98 | 3275 | 3308 | 3342 | 3375 | 3409 | 3442 | 3475 | 3509 | 3542 | 3576 | |
| 99 | 3609 | 3643 | 3676 | 3709 | 3743 | 3776 | 3810 | 3843 | 3877 | 3910 | |
| 1300 | 11 3943 | 3977 | 4010 | 4044 | 4077 | 4110 | 4144 | 4177 | 4211 | 4244 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 12500 | = 3° 28' 20" | | | | | | | | | | |
| 12600 | = 3 30 0 | | | | | | | | | | |
| 12700 | = 3 31 40 | | | | | | | | | | |
| 12800 | = 3 33 20 | | | | | | | | | | |
| 12900 | = 3 35 0 | | | | | | | | | | |
| 12500 | = 0° 20' 50" | | | | | | | | | | |
| 12600 | = 0 21 0 | | | | | | | | | | |
| 12700 | = 0 21 10 | | | | | | | | | | |
| 12800 | = 0 21 20 | | | | | | | | | | |
| 12900 | = 0 21 30 | | | | | | | | | | |

S. 4.685 572 T. 580

572 580

572 580

572 580

572 581

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|------------|-------|-------|--------|------------|----------|-------|--------|-------|--------|
| 1300 | II 3943 | 3977 | 4010 | 4044 | 4077 | 4110 | 4144 | 4177 | 4211 | 4244 | |
| 01 | 4277 | 4311 | 4344 | 4377 | 4411 | 4444 | 4478 | 4511 | 4544 | 4578 | |
| 02 | 4611 | 4644 | 4678 | 4711 | 4744 | 4778 | 4811 | 4844 | 4878 | 4911 | |
| 03 | 4944 | 4978 | 5011 | 5044 | 5078 | 5111 | 5144 | 5178 | 5211 | 5244 | |
| 04 | 5278 | 5311 | 5344 | 5377 | 5411 | 5444 | 5477 | 5511 | 5544 | 5577 | |
| 05 | II 5611 | 5644 | 5677 | 5710 | 5744 | 5777 | 5810 | 5843 | 5877 | 5910 | |
| 06 | 5943 | 5976 | 6010 | 6043 | 6076 | 6109 | 6143 | 6176 | 6209 | 6242 | 34 |
| 07 | 6276 | 6309 | 6342 | 6375 | 6408 | 6442 | 6475 | 6508 | 6541 | 6575 | 1 3.4 |
| 08 | 6608 | 6641 | 6674 | 6707 | 6741 | 6774 | 6807 | 6840 | 6873 | 6906 | 2 6.8 |
| 09 | 6940 | 6973 | 7006 | 7039 | 7072 | 7106 | 7139 | 7172 | 7205 | 7238 | 3 10.2 |
| 1310 | II 7271 | 7304 | 7338 | 7371 | 7404 | 7437 | 7470 | 7503 | 7536 | 7570 | 4 13.6 |
| 11 | 7603 | 7636 | 7669 | 7702 | 7735 | 7768 | 7801 | 7835 | 7868 | 7901 | 5 17.0 |
| 12 | 7934 | 7967 | 8000 | 8033 | 8066 | 8099 | 8132 | 8165 | 8199 | 8232 | 6 20.4 |
| 13 | 8265 | 8298 | 8331 | 8364 | 8397 | 8430 | 8463 | 8496 | 8529 | 8562 | 7 23.8 |
| 14 | 8595 | 8628 | 8661 | 8695 | 8728 | 8761 | 8794 | 8827 | 8860 | 8893 | 8 27.2 |
| 15 | II 8926 | 8959 | 8992 | 9025 | 9058 | 9091 | 9124 | 9157 | 9190 | 9223 | 9 30.6 |
| 16 | 9256 | 9289 | 9322 | 9355 | 9388 | 9421 | 9454 | 9487 | 9520 | 9553 | |
| 17 | 9586 | 9619 | 9652 | 9685 | 9718 | 9751 | 9784 | 9817 | 9850 | 9882 | |
| 18 | 9915 | 9948 | 9981 | 10014 | 10047 | 10080 | 10113 | 10146 | 10179 | 10212 | |
| 19 | 10245 | 10278 | 10311 | 10344 | 10376 | 10409 | 10442 | 10475 | 10508 | 10541 | |
| 1320 | 12 0574 | 0607 | 0640 | 0673 | 0706 | 0738 | 0771 | 0804 | 0837 | 0870 | |
| 21 | 0903 | 0936 | 0969 | 1001 | 1034 | 1067 | 1100 | 1133 | 1166 | 1199 | 33 |
| 22 | 1231 | 1264 | 1297 | 1330 | 1363 | 1396 | 1429 | 1461 | 1494 | 1527 | 1 3.3 |
| 23 | 1560 | 1593 | 1625 | 1658 | 1691 | 1724 | 1757 | 1790 | 1822 | 1855 | 2 6.6 |
| 24 | 1888 | 1921 | 1954 | 1986 | 2019 | 2052 | 2085 | 2118 | 2150 | 2183 | 3 9.9 |
| 25 | 12 2216 | 2249 | 2281 | 2314 | 2347 | 2380 | 2412 | 2445 | 2478 | 2511 | 4 13.2 |
| 26 | 2544 | 2576 | 2609 | 2642 | 2675 | 2707 | 2740 | 2773 | 2805 | 2838 | 5 16.5 |
| 27 | 2871 | 2904 | 2936 | 2969 | 3002 | 3035 | 3067 | 3100 | 3133 | 3165 | 6 19.8 |
| 28 | 3198 | 3231 | 3263 | 3296 | 3329 | 3362 | 3394 | 3427 | 3460 | 3492 | 7 23.1 |
| 29 | 3525 | 3558 | 3590 | 3623 | 3656 | 3688 | 3721 | 3754 | 3786 | 3819 | 8 26.4 |
| 1330 | 12 3852 | 3884 | 3917 | 3950 | 3982 | 4015 | 4048 | 4080 | 4113 | 4145 | 9 29.7 |
| 31 | 4178 | 4211 | 4243 | 4276 | 4309 | 4341 | 4374 | 4406 | 4439 | 4472 | |
| 32 | 4504 | 4537 | 4569 | 4602 | 4635 | 4667 | 4700 | 4732 | 4765 | 4798 | |
| 33 | 4830 | 4863 | 4895 | 4928 | 4960 | 4993 | 5026 | 5058 | 5091 | 5123 | |
| 34 | 5156 | 5188 | 5221 | 5253 | 5286 | 5319 | 5351 | 5384 | 5416 | 5449 | |
| 35 | 12 5481 | 5514 | 5546 | 5579 | 5611 | 5644 | 5676 | 5709 | 5741 | 5774 | |
| 36 | 5806 | 5839 | 5871 | 5904 | 5936 | 5969 | 6001 | 6034 | 6066 | 6099 | 32 |
| 37 | 6131 | 6164 | 6196 | 6229 | 6261 | 6294 | 6326 | 6359 | 6391 | 6424 | 1 3.2 |
| 38 | 6456 | 6489 | 6521 | 6553 | 6586 | 6618 | 6651 | 6683 | 6716 | 6748 | 2 6.4 |
| 39 | 6781 | 6813 | 6845 | 6878 | 6910 | 6943 | 6975 | 7008 | 7040 | 7072 | 3 9.6 |
| 1340 | 12 7105 | 7137 | 7170 | 7202 | 7234 | 7267 | 7299 | 7332 | 7364 | 7396 | 4 12.8 |
| 41 | 7429 | 7461 | 7494 | 7526 | 7558 | 7591 | 7623 | 7655 | 7688 | 7720 | 5 16.0 |
| 42 | 7753 | 7785 | 7817 | 7850 | 7882 | 7914 | 7947 | 7979 | 8011 | 8044 | 6 19.2 |
| 43 | 8076 | 8108 | 8141 | 8173 | 8205 | 8238 | 8270 | 8302 | 8335 | 8367 | 7 22.4 |
| 44 | 8399 | 8432 | 8464 | 8496 | 8529 | 8561 | 8593 | 8625 | 8658 | 8690 | 8 25.6 |
| 45 | 12 8722 | 8755 | 8787 | 8819 | 8851 | 8884 | 8916 | 8948 | 8981 | 9013 | 9 28.8 |
| 46 | 9045 | 9077 | 9110 | 9142 | 9174 | 9206 | 9239 | 9271 | 9303 | 9335 | |
| 47 | 9368 | 9400 | 9432 | 9464 | 9497 | 9529 | 9561 | 9593 | 9625 | 9658 | |
| 48 | 9690 | 9722 | 9754 | 9787 | 9819 | 9851 | 9883 | 9915 | 9948 | 9980 | |
| 49 | 13 0012 | 0044 | 0076 | 0109 | 0141 | 0173 | 0205 | 0237 | 0269 | 0302 | |
| 1350 | 13 0334 | 0366 | 0398 | 0430 | 0462 | 0495 | 0527 | 0559 | 0591 | 0623 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 13000" | 3° 36' 40" | | | 13000" | 0° 21' 40" | S. 4.685 | 572 | T. 581 | | |
| | 13100 | 3 38 20 | | | 13100 | 0 21 50 | | 572 | 581 | | |
| | 13200 | 3 40 0 | | | 13200 | 0 22 0 | | 572 | 581 | | |
| | 13300 | 3 41 40 | | | 13300 | 0 22 10 | | 572 | 581 | | |
| | 13400 | 3 43 20 | | | 13400 | 0 22 20 | | 572 | 581 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|---------------------|------|----------|------|--------|------|--------|
| 1350 | 13 0334 | 0366 | 0398 | 0430 | 0462 | 0495 | 0527 | 0559 | 0591 | 0623 | |
| 51 | 0655 | 0687 | 0720 | 0752 | 0784 | 0816 | 0848 | 0880 | 0912 | 0945 | |
| 52 | 0977 | 1009 | 1041 | 1073 | 1105 | 1137 | 1169 | 1201 | 1234 | 1266 | |
| 53 | 1298 | 1330 | 1362 | 1394 | 1426 | 1458 | 1490 | 1522 | 1555 | 1587 | |
| 54 | 1619 | 1651 | 1683 | 1715 | 1747 | 1779 | 1811 | 1843 | 1875 | 1907 | |
| 55 | 13 1939 | 1971 | 2003 | 2035 | 2067 | 2100 | 2132 | 2164 | 2196 | 2228 | |
| 56 | 2260 | 2292 | 2324 | 2356 | 2388 | 2420 | 2452 | 2484 | 2516 | 2548 | |
| 57 | 2580 | 2612 | 2644 | 2676 | 2708 | 2740 | 2772 | 2804 | 2836 | 2868 | |
| 58 | 2900 | 2932 | 2964 | 2996 | 3028 | 3060 | 3092 | 3124 | 3156 | 3188 | 33 |
| 59 | 3219 | 3251 | 3283 | 3315 | 3347 | 3379 | 3411 | 3443 | 3475 | 3507 | 1 3.3 |
| 1360 | 13 3539 | 3571 | 3603 | 3635 | 3667 | 3699 | 3730 | 3762 | 3794 | 3826 | 2 6.6 |
| 61 | 3858 | 3890 | 3922 | 3954 | 3986 | 4018 | 4050 | 4081 | 4113 | 4145 | 3 9.9 |
| 62 | 4177 | 4209 | 4241 | 4273 | 4305 | 4337 | 4368 | 4400 | 4432 | 4464 | 4 13.2 |
| 63 | 4496 | 4528 | 4560 | 4591 | 4623 | 4655 | 4687 | 4719 | 4751 | 4783 | 5 16.5 |
| 64 | 4814 | 4846 | 4878 | 4910 | 4942 | 4974 | 5005 | 5037 | 5069 | 5101 | 6 19.8 |
| 65 | 13 5133 | 5164 | 5196 | 5228 | 5260 | 5292 | 5324 | 5355 | 5387 | 5419 | 7 23.1 |
| 66 | 5451 | 5482 | 5514 | 5546 | 5578 | 5610 | 5641 | 5673 | 5705 | 5737 | 8 26.4 |
| 67 | 5769 | 5800 | 5832 | 5864 | 5896 | 5927 | 5959 | 5991 | 6023 | 6054 | 9 29.7 |
| 68 | 6086 | 6118 | 6150 | 6181 | 6213 | 6245 | 6277 | 6308 | 6340 | 6372 | |
| 69 | 6403 | 6435 | 6467 | 6499 | 6530 | 6562 | 6594 | 6625 | 6657 | 6689 | |
| 1370 | 13 6721 | 6752 | 6784 | 6816 | 6847 | 6879 | 6911 | 6942 | 6974 | 7006 | |
| 71 | 7037 | 7069 | 7101 | 7132 | 7164 | 7196 | 7227 | 7259 | 7291 | 7322 | 32 |
| 72 | 7354 | 7386 | 7417 | 7449 | 7481 | 7512 | 7544 | 7576 | 7607 | 7639 | 1 3.2 |
| 73 | 7671 | 7702 | 7734 | 7765 | 7797 | 7829 | 7860 | 7892 | 7924 | 7955 | 2 6.4 |
| 74 | 7987 | 8018 | 8050 | 8082 | 8113 | 8145 | 8176 | 8208 | 8240 | 8271 | 3 9.6 |
| 75 | 13 8303 | 8334 | 8366 | 8397 | 8429 | 8461 | 8492 | 8524 | 8555 | 8587 | 4 12.8 |
| 76 | 8618 | 8650 | 8682 | 8713 | 8745 | 8776 | 8808 | 8839 | 8871 | 8902 | 5 16.0 |
| 77 | 8934 | 8965 | 8997 | 9029 | 9060 | 9092 | 9123 | 9155 | 9186 | 9218 | 6 19.2 |
| 78 | 9249 | 9281 | 9312 | 9344 | 9375 | 9407 | 9438 | 9470 | 9501 | 9533 | 7 22.4 |
| 79 | 9564 | 9596 | 9627 | 9659 | 9690 | 9722 | 9753 | 9785 | 9816 | 9848 | 8 25.6 |
| 1380 | 13 9879 | 9911 | 9942 | 9973 | 0005 | 0036 | 0068 | 0099 | 0131 | 0162 | 9 28.8 |
| 81 | 14 0194 | 0225 | 0257 | 0288 | 0319 | 0351 | 0382 | 0414 | 0445 | 0477 | |
| 82 | 0508 | 0539 | 0571 | 0602 | 0634 | 0665 | 0697 | 0728 | 0759 | 0791 | |
| 83 | 0822 | 0854 | 0885 | 0916 | 0948 | 0979 | 1011 | 1042 | 1073 | 1105 | |
| 84 | 1136 | 1167 | 1199 | 1230 | 1262 | 1293 | 1324 | 1356 | 1387 | 1418 | |
| 85 | 14 1450 | 1481 | 1512 | 1544 | 1575 | 1607 | 1638 | 1669 | 1701 | 1732 | |
| 86 | 1763 | 1795 | 1826 | 1857 | 1889 | 1920 | 1951 | 1983 | 2014 | 2045 | 31 |
| 87 | 2076 | 2108 | 2139 | 2170 | 2202 | 2233 | 2264 | 2296 | 2327 | 2358 | 1 3.1 |
| 88 | 2389 | 2421 | 2452 | 2483 | 2515 | 2546 | 2577 | 2608 | 2640 | 2671 | 2 6.2 |
| 89 | 2702 | 2734 | 2765 | 2796 | 2827 | 2859 | 2890 | 2921 | 2952 | 2984 | 3 9.3 |
| 1390 | 14 3015 | 3046 | 3077 | 3109 | 3140 | 3171 | 3202 | 3233 | 3265 | 3296 | 4 12.4 |
| 91 | 3327 | 3358 | 3390 | 3421 | 3452 | 3483 | 3514 | 3546 | 3577 | 3608 | 5 15.5 |
| 92 | 3639 | 3670 | 3702 | 3733 | 3764 | 3795 | 3826 | 3858 | 3889 | 3920 | 6 18.6 |
| 93 | 3951 | 3982 | 4013 | 4045 | 4076 | 4107 | 4138 | 4169 | 4200 | 4232 | 7 21.7 |
| 94 | 4263 | 4294 | 4325 | 4356 | 4387 | 4419 | 4450 | 4481 | 4512 | 4543 | 8 24.8 |
| 95 | 14 4574 | 4605 | 4636 | 4668 | 4699 | 4730 | 4761 | 4792 | 4823 | 4854 | 9 27.9 |
| 96 | 4885 | 4917 | 4948 | 4979 | 5010 | 5041 | 5072 | 5103 | 5134 | 5165 | |
| 97 | 5196 | 5227 | 5259 | 5290 | 5321 | 5352 | 5383 | 5414 | 5445 | 5476 | |
| 98 | 5507 | 5538 | 5569 | 5600 | 5631 | 5662 | 5694 | 5725 | 5756 | 5787 | |
| 99 | 5818 | 5849 | 5880 | 5911 | 5942 | 5973 | 6004 | 6035 | 6066 | 6097 | |
| 1400 | 14 6128 | 6159 | 6190 | 6221 | 6252 | 6283 | 6314 | 6345 | 6376 | 6407 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 13500" = 3° 45' 0" | | | | 13500" = 0° 22' 30" | | S. 4,685 | 572 | T. 581 | | |
| | 13600 = 3 46 40 | | | | 1360 = 0 22 40 | | | 572 | 581 | | |
| | 13700 = 3 48 20 | | | | 1370 = 0 22 50 | | | 572 | 581 | | |
| | 13800 = 3 50 0 | | | | 1380 = 0 23 0 | | | 572 | 581 | | |
| | 13900 = 3 51 40 | | | | 1390 = 0 23 10 | | | 572 | 581 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|---------------------|-------|-------|----------|-------|--------|--------|
| 1400 | 14 6122 | 6159 | 6190 | 6221 | 6252 | 6283 | 6314 | 6345 | 6376 | 6407 | |
| 01 | 6438 | 6469 | 6500 | 6531 | 6562 | 6593 | 6624 | 6655 | 6686 | 6717 | |
| 02 | 6748 | 6779 | 6810 | 6841 | 6872 | 6903 | 6934 | 6965 | 6996 | 7027 | |
| 03 | 7058 | 7089 | 7120 | 7151 | 7181 | 7212 | 7243 | 7274 | 7305 | 7336 | |
| 04 | 7367 | 7398 | 7429 | 7460 | 7491 | 7522 | 7553 | 7584 | 7614 | 7645 | |
| 05 | 14 7676 | 7707 | 7738 | 7769 | 7800 | 7831 | 7862 | 7893 | 7924 | 7954 | |
| 06 | 7985 | 8016 | 8047 | 8078 | 8109 | 8140 | 8171 | 8201 | 8232 | 8263 | |
| 07 | 8294 | 8325 | 8356 | 8387 | 8418 | 8448 | 8479 | 8510 | 8541 | 8572 | 31 |
| 08 | 8603 | 8633 | 8664 | 8695 | 8726 | 8757 | 8788 | 8819 | 8849 | 8880 | 1 3.1 |
| 09 | 8911 | 8942 | 8973 | 9003 | 9034 | 9065 | 9096 | 9127 | 9158 | 9188 | 2 6.2 |
| 1410 | 14 9219 | 9250 | 9281 | 9312 | 9342 | 9373 | 9404 | 9435 | 9465 | 9496 | 3 9.3 |
| 11 | 9527 | 9558 | 9589 | 9619 | 9650 | 9681 | 9712 | 9742 | 9773 | 9804 | 4 12.4 |
| 12 | 9835 | 9865 | 9896 | 9927 | 9958 | 9988 | 10019 | 10050 | 10081 | 10111 | 5 15.5 |
| 13 | 15 0142 | 0173 | 0204 | 0234 | 0265 | 0296 | 0327 | 0357 | 0388 | 0419 | 6 18.6 |
| 14 | 0449 | 0480 | 0511 | 0542 | 0572 | 0603 | 0634 | 0664 | 0695 | 0726 | 7 21.7 |
| 15 | 0756 | 0787 | 0818 | 0849 | 0879 | 0910 | 0941 | 0971 | 1002 | 1033 | 8 24.8 |
| 16 | 1063 | 1094 | 1125 | 1155 | 1186 | 1217 | 1247 | 1278 | 1309 | 1339 | 9 27.9 |
| 17 | 1370 | 1400 | 1431 | 1462 | 1492 | 1523 | 1554 | 1584 | 1615 | 1646 | |
| 18 | 1676 | 1707 | 1737 | 1768 | 1799 | 1829 | 1860 | 1891 | 1921 | 1952 | |
| 19 | 1982 | 2013 | 2044 | 2074 | 2105 | 2135 | 2166 | 2197 | 2227 | 2258 | |
| 1420 | 15 2288 | 2319 | 2350 | 2380 | 2411 | 2441 | 2472 | 2502 | 2533 | 2564 | |
| 21 | 2594 | 2625 | 2655 | 2686 | 2716 | 2747 | 2777 | 2808 | 2839 | 2869 | 30 |
| 22 | 2900 | 2930 | 2961 | 2991 | 3022 | 3052 | 3083 | 3113 | 3144 | 3174 | 1 3.0 |
| 23 | 3205 | 3235 | 3266 | 3296 | 3327 | 3357 | 3388 | 3418 | 3449 | 3479 | 2 6.0 |
| 24 | 3510 | 3540 | 3571 | 3601 | 3632 | 3662 | 3693 | 3723 | 3754 | 3784 | 3 9.0 |
| 25 | 15 3815 | 3845 | 3876 | 3906 | 3937 | 3967 | 3998 | 4028 | 4059 | 4089 | 4 12.0 |
| 26 | 4120 | 4150 | 4180 | 4211 | 4241 | 4272 | 4302 | 4333 | 4363 | 4394 | 5 15.0 |
| 27 | 4424 | 4454 | 4485 | 4515 | 4546 | 4576 | 4607 | 4637 | 4667 | 4698 | 6 18.0 |
| 28 | 4728 | 4759 | 4789 | 4819 | 4850 | 4880 | 4911 | 4941 | 4971 | 5002 | 7 21.0 |
| 29 | 5032 | 5063 | 5093 | 5123 | 5154 | 5184 | 5215 | 5245 | 5275 | 5306 | 8 24.0 |
| 1430 | 15 5336 | 5366 | 5397 | 5427 | 5458 | 5488 | 5518 | 5549 | 5579 | 5609 | 9 27.0 |
| 31 | 5640 | 5670 | 5700 | 5731 | 5761 | 5791 | 5822 | 5852 | 5882 | 5913 | |
| 32 | 5943 | 5973 | 6004 | 6034 | 6064 | 6095 | 6125 | 6155 | 6186 | 6216 | |
| 33 | 6246 | 6276 | 6307 | 6337 | 6367 | 6398 | 6428 | 6458 | 6489 | 6519 | |
| 34 | 6549 | 6579 | 6610 | 6640 | 6670 | 6701 | 6731 | 6761 | 6791 | 6822 | |
| 35 | 15 6852 | 6882 | 6912 | 6943 | 6973 | 7003 | 7033 | 7064 | 7094 | 7124 | |
| 36 | 7154 | 7185 | 7215 | 7245 | 7275 | 7306 | 7336 | 7366 | 7396 | 7427 | 29 |
| 37 | 7457 | 7487 | 7517 | 7547 | 7578 | 7608 | 7638 | 7668 | 7698 | 7729 | 1 2.9 |
| 38 | 7759 | 7789 | 7819 | 7849 | 7880 | 7910 | 7940 | 7970 | 8000 | 8031 | 2 5.8 |
| 39 | 8061 | 8091 | 8121 | 8151 | 8181 | 8212 | 8242 | 8272 | 8302 | 8332 | 3 8.7 |
| 1440 | 15 8362 | 8393 | 8423 | 8453 | 8483 | 8513 | 8543 | 8574 | 8604 | 8634 | 4 11.6 |
| 41 | 8664 | 8694 | 8724 | 8754 | 8785 | 8815 | 8845 | 8875 | 8905 | 8935 | 5 14.5 |
| 42 | 8965 | 8995 | 9025 | 9056 | 9086 | 9116 | 9146 | 9176 | 9206 | 9236 | 6 17.4 |
| 43 | 9266 | 9296 | 9327 | 9357 | 9387 | 9417 | 9447 | 9477 | 9507 | 9537 | 7 20.3 |
| 44 | 9567 | 9597 | 9627 | 9657 | 9687 | 9718 | 9748 | 9778 | 9808 | 9838 | 8 23.2 |
| 45 | 15 9868 | 9898 | 9928 | 9958 | 9988 | 10018 | 10048 | 10078 | 10108 | 10138 | 9 26.1 |
| 46 | 16 0168 | 0198 | 0228 | 0258 | 0288 | 0318 | 0348 | 0378 | 0409 | 0439 | |
| 47 | 0469 | 0499 | 0529 | 0559 | 0589 | 0619 | 0649 | 0679 | 0709 | 0739 | |
| 48 | 0769 | 0799 | 0829 | 0859 | 0889 | 0918 | 0948 | 0978 | 1008 | 1038 | |
| 49 | 1068 | 1098 | 1128 | 1158 | 1188 | 1218 | 1248 | 1278 | 1308 | 1338 | |
| 1450 | 16 1368 | 1398 | 1428 | 1458 | 1488 | 1518 | 1548 | 1578 | 1608 | 1637 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 14000" = 3° 53' 20" | | | | 14000" = 0° 23' 20" | | | S. 4,685 | 572 | T. 582 | |
| | 14100 = 3 55 0 | | | | 14100 = 0 23 30 | | | | 571 | 582 | |
| | 14200 = 3 56 40 | | | | 14200 = 0 23 40 | | | | 571 | 582 | |
| | 14300 = 3 58 20 | | | | 14300 = 0 23 50 | | | | 571 | 582 | |
| | 14400 = 4 0 0 | | | | 14400 = 0 24 0 | | | | 571 | 582 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|---------------------|------|------|----------|------|--------|------|--------|
| 1450 | 16 1368 | 1398 | 1428 | 1458 | 1488 | 1518 | 1548 | 1578 | 1608 | 1637 | |
| 51 | 1667 | 1697 | 1727 | 1757 | 1787 | 1817 | 1847 | 1877 | 1907 | 1937 | |
| 52 | 1967 | 1997 | 2026 | 2056 | 2086 | 2116 | 2146 | 2176 | 2206 | 2236 | |
| 53 | 2266 | 2296 | 2325 | 2355 | 2385 | 2415 | 2445 | 2475 | 2505 | 2535 | |
| 54 | 2564 | 2594 | 2624 | 2654 | 2684 | 2714 | 2744 | 2773 | 2803 | 2833 | |
| 55 | x6 2863 | 2893 | 2923 | 2953 | 2982 | 3012 | 3042 | 3072 | 3102 | 3132 | |
| 56 | 3161 | 3191 | 3221 | 3251 | 3281 | 3310 | 3340 | 3370 | 3400 | 3430 | |
| 57 | 3460 | 3489 | 3519 | 3549 | 3579 | 3609 | 3638 | 3668 | 3698 | 3728 | 30 |
| 58 | 3758 | 3787 | 3817 | 3847 | 3877 | 3906 | 3936 | 3966 | 3996 | 4026 | 1 3.0 |
| 59 | 4055 | 4085 | 4115 | 4145 | 4174 | 4204 | 4234 | 4264 | 4293 | 4323 | 2 6.0 |
| 1460 | x6 4353 | 4383 | 4412 | 4442 | 4472 | 4502 | 4531 | 4561 | 4591 | 4620 | 3 9.0 |
| 61 | 4650 | 4680 | 4710 | 4739 | 4769 | 4799 | 4829 | 4858 | 4888 | 4918 | 4 12.0 |
| 62 | 4947 | 4977 | 5007 | 5036 | 5066 | 5096 | 5126 | 5155 | 5185 | 5215 | 5 15.0 |
| 63 | 5244 | 5274 | 5304 | 5333 | 5363 | 5393 | 5422 | 5452 | 5482 | 5511 | 6 18.0 |
| 64 | 5541 | 5571 | 5600 | 5630 | 5660 | 5689 | 5719 | 5749 | 5778 | 5808 | 7 21.0 |
| 65 | x6 5838 | 5867 | 5897 | 5927 | 5956 | 5986 | 6015 | 6045 | 6075 | 6104 | 8 24.0 |
| 66 | 6134 | 6164 | 6193 | 6223 | 6252 | 6282 | 6312 | 6341 | 6371 | 6401 | 9 27.0 |
| 67 | 6430 | 6460 | 6489 | 6519 | 6549 | 6578 | 6608 | 6637 | 6667 | 6696 | |
| 68 | 6726 | 6756 | 6785 | 6815 | 6844 | 6874 | 6904 | 6933 | 6963 | 6992 | |
| 69 | 7022 | 7051 | 7081 | 7110 | 7140 | 7170 | 7199 | 7229 | 7258 | 7288 | |
| 1470 | x6 7317 | 7347 | 7376 | 7406 | 7435 | 7465 | 7495 | 7524 | 7554 | 7583 | |
| 71 | 7613 | 7642 | 7672 | 7701 | 7731 | 7760 | 7790 | 7819 | 7849 | 7878 | 29 |
| 72 | 7908 | 7937 | 7967 | 7996 | 8026 | 8055 | 8085 | 8114 | 8144 | 8173 | 1 2.9 |
| 73 | 8203 | 8232 | 8262 | 8291 | 8321 | 8350 | 8380 | 8409 | 8439 | 8468 | 2 5.8 |
| 74 | 8497 | 8527 | 8556 | 8586 | 8615 | 8645 | 8674 | 8704 | 8733 | 8763 | 3 8.7 |
| 75 | x6 8792 | 8821 | 8851 | 8880 | 8910 | 8939 | 8969 | 8998 | 9028 | 9057 | 4 11.6 |
| 76 | 9086 | 9116 | 9145 | 9175 | 9204 | 9233 | 9263 | 9292 | 9322 | 9351 | 5 14.5 |
| 77 | 9380 | 9410 | 9439 | 9469 | 9498 | 9527 | 9557 | 9586 | 9616 | 9645 | 6 17.4 |
| 78 | 9674 | 9704 | 9733 | 9763 | 9792 | 9821 | 9851 | 9880 | 9909 | 9939 | 7 20.3 |
| 79 | 9968 | 9998 | 0027 | 0056 | 0086 | 0115 | 0144 | 0174 | 0203 | 0232 | 8 23.2 |
| 1480 | x7 0262 | 0291 | 0320 | 0350 | 0379 | 0408 | 0438 | 0467 | 0496 | 0526 | 9 26.1 |
| 81 | 0555 | 0584 | 0614 | 0643 | 0672 | 0702 | 0731 | 0760 | 0790 | 0819 | |
| 82 | 0848 | 0878 | 0907 | 0936 | 0965 | 0995 | 1024 | 1053 | 1083 | 1112 | |
| 83 | 1141 | 1170 | 1200 | 1229 | 1258 | 1288 | 1317 | 1346 | 1375 | 1405 | |
| 84 | 1434 | 1463 | 1492 | 1522 | 1551 | 1580 | 1609 | 1639 | 1668 | 1697 | |
| 85 | x7 1726 | 1756 | 1785 | 1814 | 1843 | 1873 | 1902 | 1931 | 1960 | 1990 | |
| 86 | 2019 | 2048 | 2077 | 2106 | 2136 | 2165 | 2194 | 2223 | 2253 | 2282 | 28 |
| 87 | 2311 | 2340 | 2369 | 2399 | 2428 | 2457 | 2486 | 2515 | 2545 | 2574 | 1 2.8 |
| 88 | 2603 | 2632 | 2661 | 2690 | 2720 | 2749 | 2778 | 2807 | 2836 | 2866 | 2 5.6 |
| 89 | 2895 | 2924 | 2953 | 2982 | 3011 | 3041 | 3070 | 3099 | 3128 | 3157 | 3 8.4 |
| 1490 | x7 3186 | 3215 | 3245 | 3274 | 3303 | 3332 | 3361 | 3390 | 3419 | 3449 | 4 11.2 |
| 91 | 3478 | 3507 | 3536 | 3565 | 3594 | 3623 | 3652 | 3681 | 3711 | 3740 | 5 14.0 |
| 92 | 3769 | 3798 | 3827 | 3856 | 3885 | 3914 | 3943 | 3973 | 4002 | 4031 | 6 16.8 |
| 93 | 4060 | 4089 | 4118 | 4147 | 4176 | 4205 | 4234 | 4263 | 4292 | 4322 | 7 19.6 |
| 94 | 4351 | 4380 | 4409 | 4438 | 4467 | 4496 | 4525 | 4554 | 4583 | 4612 | 8 22.4 |
| 95 | x7 4641 | 4670 | 4699 | 4728 | 4757 | 4786 | 4815 | 4844 | 4874 | 4903 | 9 25.2 |
| 96 | 4932 | 4961 | 4990 | 5019 | 5048 | 5077 | 5106 | 5135 | 5164 | 5193 | |
| 97 | 5222 | 5251 | 5280 | 5309 | 5338 | 5367 | 5396 | 5425 | 5454 | 5483 | |
| 98 | 5512 | 5541 | 5570 | 5599 | 5628 | 5657 | 5686 | 5715 | 5744 | 5773 | |
| 99 | 5802 | 5831 | 5860 | 5889 | 5918 | 5946 | 5975 | 6004 | 6033 | 6062 | |
| 1500 | x7 6091 | 6120 | 6149 | 6178 | 6207 | 6236 | 6265 | 6294 | 6323 | 6352 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 14500" = 4° 1' 40" | | | 14500" = 0° 24' 10" | | | S. 4.685 | 571 | T. 582 | | |
| | 14600 = 4 3 20 | | | 14600 = 0 24 20 | | | | 571 | 582 | | |
| | 14700 = 4 5 0 | | | 14700 = 0 24 30 | | | | 571 | 582 | | |
| | 14800 = 4 6 40 | | | 14800 = 0 24 40 | | | | 571 | 582 | | |
| | 14900 = 4 8 20 | | | 14900 = 0 24 50 | | | | 571 | 582 | | |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|--------------------|------|-------|----------|-------|--------|--------|
| 1500 | 17 6091 | 6120 | 6149 | 6178 | 6207 | 6236 | 6265 | 6294 | 6323 | 6352 | |
| 01 | 6381 | 6410 | 6439 | 6467 | 6496 | 6525 | 6554 | 6583 | 6612 | 6641 | |
| 02 | 6670 | 6699 | 6728 | 6757 | 6786 | 6814 | 6843 | 6872 | 6901 | 6930 | |
| 03 | 6959 | 6988 | 7017 | 7046 | 7075 | 7103 | 7132 | 7161 | 7190 | 7219 | |
| 04 | 7248 | 7277 | 7306 | 7334 | 7363 | 7392 | 7421 | 7450 | 7479 | 7508 | |
| 05 | 17 7536 | 7565 | 7594 | 7623 | 7652 | 7681 | 7710 | 7738 | 7767 | 7796 | |
| 06 | 7825 | 7854 | 7883 | 7911 | 7940 | 7969 | 7998 | 8027 | 8056 | 8084 | |
| 07 | 8113 | 8142 | 8171 | 8200 | 8229 | 8257 | 8286 | 8315 | 8344 | 8373 | |
| 08 | 8401 | 8430 | 8459 | 8488 | 8517 | 8545 | 8574 | 8603 | 8632 | 8660 | |
| 09 | 8689 | 8718 | 8747 | 8776 | 8804 | 8833 | 8862 | 8891 | 8919 | 8948 | |
| 1510 | 17 8977 | 9006 | 9034 | 9063 | 9092 | 9121 | 9149 | 9178 | 9207 | 9236 | |
| 11 | 9264 | 9293 | 9322 | 9351 | 9379 | 9408 | 9437 | 9466 | 9494 | 9523 | 29 |
| 12 | 9552 | 9581 | 9609 | 9638 | 9667 | 9695 | 9724 | 9753 | 9782 | 9810 | 1 2.9 |
| 13 | 9839 | 9868 | 9896 | 9925 | 9954 | 9982 | 10011 | 10040 | 10069 | 10097 | 2 5.8 |
| 14 | 18 0126 | 0155 | 0183 | 0212 | 0241 | 0269 | 0298 | 0327 | 0355 | 0384 | 3 8.7 |
| 15 | 18 0413 | 0441 | 0470 | 0499 | 0527 | 0556 | 0585 | 0613 | 0642 | 0671 | 4 11.6 |
| 16 | 0699 | 0728 | 0756 | 0785 | 0814 | 0842 | 0871 | 0900 | 0928 | 0957 | 5 14.5 |
| 17 | 0986 | 1014 | 1043 | 1071 | 1100 | 1129 | 1157 | 1186 | 1215 | 1243 | 6 17.4 |
| 18 | 1272 | 1300 | 1329 | 1358 | 1386 | 1415 | 1443 | 1472 | 1501 | 1529 | 7 20.3 |
| 19 | 1558 | 1586 | 1615 | 1644 | 1672 | 1701 | 1729 | 1758 | 1786 | 1815 | 8 23.2 |
| 1520 | 18 1844 | 1872 | 1901 | 1929 | 1958 | 1986 | 2015 | 2044 | 2072 | 2101 | 9 26.1 |
| 21 | 2129 | 2158 | 2186 | 2215 | 2243 | 2272 | 2300 | 2329 | 2358 | 2386 | |
| 22 | 2415 | 2443 | 2472 | 2500 | 2529 | 2557 | 2586 | 2614 | 2643 | 2671 | |
| 23 | 2700 | 2728 | 2757 | 2785 | 2814 | 2842 | 2871 | 2899 | 2928 | 2956 | |
| 24 | 2985 | 3013 | 3042 | 3070 | 3099 | 3127 | 3156 | 3184 | 3213 | 3241 | |
| 25 | 18 3270 | 3298 | 3327 | 3355 | 3384 | 3412 | 3441 | 3469 | 3498 | 3526 | |
| 26 | 3555 | 3583 | 3611 | 3640 | 3668 | 3697 | 3725 | 3754 | 3782 | 3811 | |
| 27 | 3839 | 3867 | 3896 | 3924 | 3953 | 3981 | 4010 | 4038 | 4067 | 4095 | |
| 28 | 4123 | 4152 | 4180 | 4209 | 4237 | 4265 | 4294 | 4322 | 4351 | 4379 | |
| 29 | 4407 | 4436 | 4464 | 4493 | 4521 | 4549 | 4578 | 4606 | 4635 | 4663 | |
| 1530 | 18 4651 | 4679 | 4708 | 4737 | 4765 | 4794 | 4822 | 4851 | 4879 | 4908 | 28 |
| 31 | 4937 | 5004 | 5032 | 5060 | 5088 | 5117 | 5145 | 5174 | 5202 | 5230 | 1 2.8 |
| 32 | 5259 | 5287 | 5315 | 5344 | 5372 | 5400 | 5429 | 5457 | 5485 | 5514 | 2 5.6 |
| 33 | 5542 | 5570 | 5599 | 5627 | 5655 | 5684 | 5712 | 5740 | 5769 | 5797 | 3 8.4 |
| 34 | 5825 | 5854 | 5882 | 5910 | 5939 | 5967 | 5995 | 6023 | 6052 | 6080 | 4 11.2 |
| 35 | 18 6108 | 6137 | 6165 | 6193 | 6222 | 6250 | 6278 | 6306 | 6335 | 6363 | 5 14.0 |
| 36 | 6391 | 6419 | 6448 | 6476 | 6504 | 6533 | 6561 | 6589 | 6617 | 6646 | 6 16.8 |
| 37 | 6674 | 6702 | 6730 | 6759 | 6787 | 6815 | 6843 | 6872 | 6900 | 6928 | 7 19.6 |
| 38 | 6956 | 6985 | 7013 | 7041 | 7069 | 7098 | 7126 | 7154 | 7182 | 7210 | 8 22.4 |
| 39 | 7239 | 7267 | 7295 | 7323 | 7351 | 7380 | 7408 | 7436 | 7464 | 7493 | 9 25.2 |
| 1540 | 18 7521 | 7549 | 7577 | 7605 | 7634 | 7662 | 7690 | 7718 | 7746 | 7774 | |
| 41 | 7803 | 7831 | 7859 | 7887 | 7915 | 7944 | 7972 | 8000 | 8028 | 8056 | |
| 42 | 8084 | 8113 | 8141 | 8169 | 8197 | 8225 | 8253 | 8281 | 8310 | 8338 | |
| 43 | 8366 | 8394 | 8422 | 8450 | 8478 | 8507 | 8535 | 8563 | 8591 | 8619 | |
| 44 | 8647 | 8675 | 8704 | 8732 | 8760 | 8788 | 8816 | 8844 | 8872 | 8900 | |
| 45 | 18 8928 | 8957 | 8985 | 9013 | 9041 | 9069 | 9097 | 9125 | 9153 | 9181 | |
| 46 | 9209 | 9238 | 9266 | 9294 | 9322 | 9350 | 9378 | 9406 | 9434 | 9462 | |
| 47 | 9490 | 9518 | 9546 | 9575 | 9603 | 9631 | 9659 | 9687 | 9715 | 9743 | |
| 48 | 9771 | 9799 | 9827 | 9855 | 9883 | 9911 | 9939 | 9967 | 9995 | 10023 | |
| 49 | 19 0051 | 0079 | 0107 | 0136 | 0164 | 0192 | 0220 | 0248 | 0276 | 0304 | |
| 1550 | 19 0332 | 0360 | 0388 | 0416 | 0444 | 0472 | 0500 | 0528 | 0556 | 0584 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 15000" = 4° 10' 0" | | | | 15000" = 0° 25' 0" | | | S. 4,685 | 571 | T. 583 | |
| | 15100 = 4 11 40 | | | | 15100 = 0 25 10 | | | | 571 | 583 | |
| | 15200 = 4 13 20 | | | | 15200 = 0 25 20 | | | | 571 | 583 | |
| | 15300 = 4 15 0 | | | | 15300 = 0 25 30 | | | | 571 | 583 | |
| | 15400 = 4 16 40 | | | | 15400 = 0 25 40 | | | | 571 | 583 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|--------------------|------|------|--------------|--------|-------|--------|
| 1550 | 19 0332 | 0360 | 0388 | 0416 | 0444 | 0472 | 0500 | 0528 | 0556 | 0584 | |
| 51 | 0612 | 0640 | 0668 | 0696 | 0724 | 0752 | 0780 | 0808 | 0836 | 0864 | |
| 52 | 0892 | 0920 | 0948 | 0976 | 1004 | 1032 | 1060 | 1088 | 1116 | 1143 | |
| 53 | 1171 | 1199 | 1227 | 1255 | 1283 | 1311 | 1339 | 1367 | 1395 | 1423 | |
| 54 | 1451 | 1479 | 1507 | 1535 | 1563 | 1591 | 1619 | 1647 | 1675 | 1702 | |
| 55 | 19 1730 | 1758 | 1786 | 1814 | 1842 | 1870 | 1898 | 1926 | 1954 | 1982 | |
| 56 | 2010 | 2038 | 2065 | 2093 | 2121 | 2149 | 2177 | 2205 | 2233 | 2261 | |
| 57 | 2289 | 2317 | 2344 | 2372 | 2400 | 2428 | 2456 | 2484 | 2512 | 2540 | |
| 58 | 2567 | 2595 | 2623 | 2651 | 2679 | 2707 | 2735 | 2763 | 2790 | 2818 | |
| 59 | 2846 | 2874 | 2902 | 2930 | 2958 | 2985 | 3013 | 3041 | 3069 | 3097 | |
| 1560 | 19 3125 | 3152 | 3180 | 3208 | 3236 | 3264 | 3292 | 3319 | 3347 | 3375 | |
| 61 | 3403 | 3431 | 3459 | 3486 | 3514 | 3542 | 3570 | 3598 | 3625 | 3653 | 28 |
| 62 | 3681 | 3709 | 3737 | 3764 | 3792 | 3820 | 3848 | 3876 | 3903 | 3931 | 1 2.8 |
| 63 | 3959 | 3987 | 4015 | 4042 | 4070 | 4098 | 4126 | 4153 | 4181 | 4209 | 2 5.6 |
| 64 | 4237 | 4265 | 4292 | 4320 | 4348 | 4376 | 4403 | 4431 | 4459 | 4487 | 3 8.4 |
| 65 | 19 4514 | 4542 | 4570 | 4598 | 4625 | 4653 | 4681 | 4709 | 4736 | 4764 | 4 11.2 |
| 66 | 4792 | 4819 | 4847 | 4875 | 4903 | 4930 | 4958 | 4986 | 5014 | 5041 | 5 14.0 |
| 67 | 5069 | 5097 | 5124 | 5152 | 5180 | 5208 | 5235 | 5263 | 5291 | 5318 | 6 16.8 |
| 68 | 5346 | 5374 | 5401 | 5429 | 5457 | 5485 | 5512 | 5540 | 5568 | 5595 | 7 19.6 |
| 69 | 5623 | 5651 | 5678 | 5706 | 5734 | 5761 | 5789 | 5817 | 5844 | 5872 | 8 22.4 |
| 1570 | 19 5900 | 5927 | 5955 | 5983 | 6010 | 6038 | 6066 | 6093 | 6121 | 6149 | 9 25.2 |
| 71 | 6176 | 6204 | 6231 | 6259 | 6287 | 6314 | 6342 | 6370 | 6397 | 6425 | |
| 72 | 6453 | 6480 | 6508 | 6535 | 6563 | 6591 | 6618 | 6646 | 6674 | 6701 | |
| 73 | 6729 | 6756 | 6784 | 6812 | 6839 | 6867 | 6894 | 6922 | 6950 | 6977 | |
| 74 | 7005 | 7032 | 7060 | 7087 | 7115 | 7143 | 7170 | 7198 | 7225 | 7253 | |
| 75 | 19 7281 | 7308 | 7336 | 7363 | 7391 | 7418 | 7446 | 7474 | 7501 | 7529 | |
| 76 | 7556 | 7584 | 7611 | 7639 | 7666 | 7694 | 7722 | 7749 | 7777 | 7804 | |
| 77 | 7832 | 7859 | 7887 | 7914 | 7942 | 7969 | 7997 | 8024 | 8052 | 8079 | |
| 78 | 8107 | 8135 | 8162 | 8190 | 8217 | 8245 | 8272 | 8300 | 8327 | 8355 | |
| 79 | 8382 | 8410 | 8437 | 8465 | 8492 | 8520 | 8547 | 8575 | 8602 | 8630 | |
| 1580 | 19 8657 | 8685 | 8712 | 8740 | 8767 | 8795 | 8822 | 8849 | 8877 | 8904 | |
| 81 | 8932 | 8959 | 8987 | 9014 | 9042 | 9069 | 9097 | 9124 | 9152 | 9179 | 27 |
| 82 | 9206 | 9234 | 9261 | 9289 | 9316 | 9344 | 9371 | 9399 | 9426 | 9453 | 1 2.7 |
| 83 | 9481 | 9508 | 9536 | 9563 | 9591 | 9618 | 9645 | 9673 | 9700 | 9728 | 2 5.4 |
| 84 | 9755 | 9783 | 9810 | 9837 | 9865 | 9892 | 9920 | 9947 | 9974 | 10002 | 3 8.1 |
| 85 | 20 0029 | 0057 | 0084 | 0111 | 0139 | 0166 | 0194 | 0221 | 0248 | 0276 | 4 10.8 |
| 86 | 0303 | 0331 | 0358 | 0385 | 0413 | 0440 | 0467 | 0495 | 0522 | 0550 | 5 13.5 |
| 87 | 0577 | 0604 | 0632 | 0659 | 0686 | 0714 | 0741 | 0768 | 0796 | 0823 | 6 16.2 |
| 88 | 0850 | 0878 | 0905 | 0933 | 0960 | 0987 | 1015 | 1042 | 1069 | 1097 | 7 18.9 |
| 89 | 1124 | 1151 | 1179 | 1206 | 1233 | 1261 | 1288 | 1315 | 1342 | 1370 | 8 21.6 |
| 1590 | 20 1397 | 1424 | 1452 | 1479 | 1506 | 1534 | 1561 | 1588 | 1616 | 1643 | 9 24.3 |
| 91 | 1670 | 1697 | 1725 | 1752 | 1779 | 1807 | 1834 | 1861 | 1889 | 1916 | |
| 92 | 1943 | 1970 | 1998 | 2025 | 2052 | 2079 | 2107 | 2134 | 2161 | 2189 | |
| 93 | 2216 | 2243 | 2270 | 2298 | 2325 | 2352 | 2379 | 2407 | 2434 | 2461 | |
| 94 | 2488 | 2516 | 2543 | 2570 | 2597 | 2625 | 2652 | 2679 | 2706 | 2733 | |
| 95 | 20 2761 | 2788 | 2815 | 2842 | 2870 | 2897 | 2924 | 2951 | 2978 | 3006 | |
| 96 | 3033 | 3060 | 3087 | 3115 | 3142 | 3169 | 3196 | 3223 | 3251 | 3278 | |
| 97 | 3305 | 3332 | 3359 | 3386 | 3414 | 3441 | 3468 | 3495 | 3522 | 3550 | |
| 98 | 3577 | 3604 | 3631 | 3658 | 3685 | 3713 | 3740 | 3767 | 3794 | 3821 | |
| 99 | 3848 | 3876 | 3903 | 3930 | 3957 | 3984 | 4011 | 4039 | 4066 | 4093 | |
| 1600 | 20 4120 | 4147 | 4174 | 4201 | 4229 | 4256 | 4283 | 4310 | 4337 | 4364 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 15500" = 4° 18' 20" | | | | 1550" = 0° 25' 50" | | | S. 4,685 571 | T. 583 | | |
| | 15600" = 4 20 0 | | | | 1560" = 0 26 0 | | | 571 | 583 | | |
| | 15700" = 4 21 40 | | | | 1570" = 0 26 10 | | | 571 | 583 | | |
| | 15800" = 4 23 20 | | | | 1580" = 0 26 20 | | | 571 | 583 | | |
| | 15900" = 4 25 0 | | | | 1590" = 0 26 30 | | | 571 | 583 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|------|------|------|------|------|------|----------|------|--------|--------|
| 1600 | 20 4120 | 4147 | 4174 | 4201 | 4229 | 4256 | 4283 | 4310 | 4337 | 4364 | |
| 01 | 4391 | 4418 | 4446 | 4473 | 4500 | 4527 | 4554 | 4581 | 4608 | 4635 | |
| 02 | 4663 | 4690 | 4717 | 4744 | 4771 | 4798 | 4825 | 4852 | 4879 | 4906 | |
| 03 | 4934 | 4961 | 4988 | 5015 | 5042 | 5069 | 5096 | 5123 | 5150 | 5177 | |
| 04 | 5204 | 5231 | 5259 | 5286 | 5313 | 5340 | 5367 | 5394 | 5421 | 5448 | |
| 05 | 20 5475 | 5502 | 5529 | 5556 | 5583 | 5610 | 5637 | 5664 | 5691 | 5718 | |
| 06 | 5746 | 5773 | 5800 | 5827 | 5854 | 5881 | 5908 | 5935 | 5962 | 5989 | |
| 07 | 6016 | 6043 | 6070 | 6097 | 6124 | 6151 | 6178 | 6205 | 6232 | 6259 | |
| 08 | 6286 | 6313 | 6340 | 6367 | 6394 | 6421 | 6448 | 6475 | 6502 | 6529 | |
| 09 | 6556 | 6583 | 6610 | 6637 | 6664 | 6691 | 6718 | 6745 | 6772 | 6799 | |
| 1610 | 20 6826 | 6853 | 6880 | 6907 | 6934 | 6961 | 6988 | 7015 | 7042 | 7069 | |
| 11 | 7096 | 7122 | 7149 | 7176 | 7203 | 7230 | 7257 | 7284 | 7311 | 7338 | 28 |
| 12 | 7365 | 7392 | 7419 | 7446 | 7473 | 7500 | 7527 | 7554 | 7581 | 7607 | 1 2.8 |
| 13 | 7634 | 7661 | 7688 | 7715 | 7742 | 7769 | 7796 | 7823 | 7850 | 7877 | 2 5.6 |
| 14 | 7904 | 7930 | 7957 | 7984 | 8011 | 8038 | 8065 | 8092 | 8119 | 8146 | 3 8.4 |
| 15 | 20 8173 | 8199 | 8226 | 8253 | 8280 | 8307 | 8334 | 8361 | 8388 | 8414 | 4 11.2 |
| 16 | 8441 | 8468 | 8495 | 8522 | 8549 | 8576 | 8603 | 8629 | 8656 | 8683 | 5 14.0 |
| 17 | 8710 | 8737 | 8764 | 8791 | 8817 | 8844 | 8871 | 8898 | 8925 | 8952 | 6 16.8 |
| 18 | 8979 | 9005 | 9032 | 9059 | 9086 | 9113 | 9140 | 9166 | 9193 | 9220 | 7 19.6 |
| 19 | 9247 | 9274 | 9300 | 9327 | 9354 | 9381 | 9408 | 9435 | 9461 | 9488 | 8 22.4 |
| 1620 | 20 9515 | 9542 | 9569 | 9595 | 9622 | 9649 | 9676 | 9703 | 9729 | 9756 | 9 25.2 |
| 21 | 9783 | 9810 | 9837 | 9863 | 9890 | 9917 | 9944 | 9971 | 9997 | 0024 | |
| 22 | 21 0051 | 0078 | 0104 | 0131 | 0158 | 0185 | 0211 | 0238 | 0265 | 0292 | |
| 23 | 0319 | 0345 | 0372 | 0399 | 0426 | 0452 | 0479 | 0506 | 0533 | 0559 | |
| 24 | 0586 | 0613 | 0640 | 0666 | 0693 | 0720 | 0746 | 0773 | 0800 | 0827 | |
| 25 | 21 0853 | 0880 | 0907 | 0934 | 0960 | 0987 | 1014 | 1040 | 1067 | 1094 | |
| 26 | 1121 | 1147 | 1174 | 1201 | 1227 | 1254 | 1281 | 1307 | 1334 | 1361 | |
| 27 | 1388 | 1414 | 1441 | 1468 | 1494 | 1521 | 1548 | 1574 | 1601 | 1628 | |
| 28 | 1654 | 1681 | 1708 | 1734 | 1761 | 1788 | 1814 | 1841 | 1868 | 1894 | |
| 29 | 1921 | 1948 | 1974 | 2001 | 2028 | 2054 | 2081 | 2108 | 2134 | 2161 | |
| 1630 | 21 2188 | 2214 | 2241 | 2268 | 2294 | 2321 | 2347 | 2374 | 2401 | 2427 | |
| 31 | 2454 | 2481 | 2507 | 2534 | 2560 | 2587 | 2614 | 2640 | 2667 | 2694 | 27 |
| 32 | 2720 | 2747 | 2773 | 2800 | 2827 | 2853 | 2880 | 2906 | 2933 | 2960 | 1 2.7 |
| 33 | 2986 | 3013 | 3039 | 3066 | 3093 | 3119 | 3146 | 3172 | 3199 | 3225 | 2 5.4 |
| 34 | 3252 | 3279 | 3305 | 3332 | 3358 | 3385 | 3411 | 3438 | 3465 | 3491 | 3 8.1 |
| 35 | 21 3518 | 3544 | 3571 | 3597 | 3624 | 3651 | 3677 | 3704 | 3730 | 3757 | 4 10.8 |
| 36 | 3783 | 3810 | 3836 | 3863 | 3889 | 3916 | 3943 | 3969 | 3996 | 4022 | 5 13.5 |
| 37 | 4049 | 4075 | 4102 | 4128 | 4155 | 4181 | 4208 | 4234 | 4261 | 4287 | 6 16.2 |
| 38 | 4314 | 4340 | 4367 | 4393 | 4420 | 4446 | 4473 | 4499 | 4526 | 4552 | 7 18.9 |
| 39 | 4579 | 4605 | 4632 | 4658 | 4685 | 4711 | 4738 | 4764 | 4791 | 4817 | 8 21.6 |
| 1640 | 21 4844 | 4870 | 4897 | 4923 | 4950 | 4976 | 5003 | 5029 | 5056 | 5082 | 9 24.3 |
| 41 | 5109 | 5135 | 5162 | 5188 | 5214 | 5241 | 5267 | 5294 | 5320 | 5347 | |
| 42 | 5373 | 5400 | 5426 | 5452 | 5479 | 5505 | 5532 | 5558 | 5585 | 5611 | |
| 43 | 5638 | 5664 | 5690 | 5717 | 5743 | 5770 | 5796 | 5823 | 5849 | 5875 | |
| 44 | 5902 | 5928 | 5955 | 5981 | 6007 | 6034 | 6060 | 6087 | 6113 | 6140 | |
| 45 | 21 6166 | 6192 | 6219 | 6245 | 6271 | 6298 | 6324 | 6351 | 6377 | 6403 | |
| 46 | 6430 | 6456 | 6483 | 6509 | 6535 | 6562 | 6588 | 6614 | 6641 | 6667 | |
| 47 | 6694 | 6720 | 6746 | 6773 | 6799 | 6825 | 6852 | 6878 | 6904 | 6931 | |
| 48 | 6957 | 6984 | 7010 | 7036 | 7063 | 7089 | 7115 | 7142 | 7168 | 7194 | |
| 49 | 7221 | 7247 | 7273 | 7300 | 7326 | 7352 | 7379 | 7405 | 7431 | 7458 | |
| 1650 | 21 7484 | 7510 | 7537 | 7563 | 7589 | 7616 | 7642 | 7668 | 7694 | 7721 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 16000 | 4 26 | 40 | | 1600 | 0 26 | 40 | S. 4,685 | 571 | T. 584 | |
| | 16100 | 4 28 | 20 | | 1610 | 0 26 | 50 | | 570 | 584 | |
| | 16200 | 4 30 | 0 | | 1620 | 0 27 | 0 | | 570 | 584 | |
| | 16300 | 4 31 | 40 | | 1630 | 0 27 | 10 | | 570 | 584 | |
| | 16400 | 4 33 | 20 | | 1640 | 0 27 | 20 | | 570 | 584 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|--------------------|------|------|----------|------|--------|--------|
| 1650 | 21 7484 | 7510 | 7537 | 7563 | 7589 | 7616 | 7642 | 7668 | 7694 | 7721 | |
| 51 | 7747 | 7773 | 7800 | 7826 | 7852 | 7879 | 7905 | 7931 | 7957 | 7984 | |
| 52 | 8010 | 8036 | 8063 | 8089 | 8115 | 8141 | 8168 | 8194 | 8220 | 8247 | |
| 53 | 8273 | 8299 | 8325 | 8352 | 8378 | 8404 | 8430 | 8457 | 8483 | 8509 | |
| 54 | 8536 | 8562 | 8588 | 8614 | 8641 | 8667 | 8693 | 8719 | 8746 | 8772 | |
| 55 | 21 8798 | 8824 | 8850 | 8877 | 8903 | 8929 | 8955 | 8982 | 9008 | 9034 | |
| 56 | 9060 | 9087 | 9113 | 9139 | 9165 | 9191 | 9218 | 9244 | 9270 | 9296 | 27 |
| 57 | 9323 | 9349 | 9375 | 9401 | 9427 | 9454 | 9480 | 9506 | 9532 | 9558 | 1 2.7 |
| 58 | 9585 | 9611 | 9637 | 9663 | 9689 | 9715 | 9742 | 9768 | 9794 | 9820 | 2 5.4 |
| 59 | 9846 | 9873 | 9899 | 9925 | 9951 | 9977 | 0003 | 0030 | 0056 | 0082 | 3 8.1 |
| 1660 | 22 0108 | 0134 | 0160 | 0187 | 0213 | 0239 | 0265 | 0291 | 0317 | 0343 | 4 10.8 |
| 61 | 0370 | 0396 | 0422 | 0448 | 0474 | 0500 | 0526 | 0553 | 0579 | 0605 | 5 13.5 |
| 62 | 0631 | 0657 | 0683 | 0709 | 0736 | 0762 | 0788 | 0814 | 0840 | 0866 | 6 16.2 |
| 63 | 0892 | 0918 | 0944 | 0971 | 0997 | 1023 | 1049 | 1075 | 1101 | 1127 | 7 18.9 |
| 64 | 1153 | 1179 | 1206 | 1232 | 1258 | 1284 | 1310 | 1336 | 1362 | 1388 | 8 21.6 |
| 65 | 22 1414 | 1440 | 1466 | 1492 | 1519 | 1545 | 1571 | 1597 | 1623 | 1649 | 9 24.3 |
| 66 | 1675 | 1701 | 1727 | 1753 | 1779 | 1805 | 1831 | 1857 | 1883 | 1910 | |
| 67 | 1936 | 1962 | 1988 | 2014 | 2040 | 2066 | 2092 | 2118 | 2144 | 2170 | |
| 68 | 2196 | 2222 | 2248 | 2274 | 2300 | 2326 | 2352 | 2378 | 2404 | 2430 | |
| 69 | 2456 | 2482 | 2508 | 2534 | 2560 | 2586 | 2612 | 2638 | 2664 | 2690 | |
| 1670 | 22 2716 | 2742 | 2768 | 2794 | 2820 | 2846 | 2872 | 2898 | 2924 | 2950 | 26 |
| 71 | 2976 | 3002 | 3028 | 3054 | 3080 | 3106 | 3132 | 3158 | 3184 | 3210 | 1 2.6 |
| 72 | 3236 | 3262 | 3288 | 3314 | 3340 | 3366 | 3392 | 3418 | 3444 | 3470 | 2 5.2 |
| 73 | 3496 | 3522 | 3548 | 3574 | 3600 | 3626 | 3652 | 3678 | 3704 | 3730 | 3 7.8 |
| 74 | 3755 | 3781 | 3807 | 3833 | 3859 | 3885 | 3911 | 3937 | 3963 | 3989 | 4 10.4 |
| 75 | 22 4015 | 4041 | 4067 | 4093 | 4119 | 4144 | 4170 | 4196 | 4222 | 4248 | 5 13.0 |
| 76 | 4274 | 4300 | 4326 | 4352 | 4378 | 4404 | 4429 | 4455 | 4481 | 4507 | 6 15.6 |
| 77 | 4533 | 4559 | 4585 | 4611 | 4637 | 4663 | 4688 | 4714 | 4740 | 4766 | 7 18.2 |
| 78 | 4792 | 4818 | 4844 | 4870 | 4895 | 4921 | 4947 | 4973 | 4999 | 5025 | 8 20.8 |
| 79 | 5051 | 5077 | 5102 | 5128 | 5154 | 5180 | 5206 | 5232 | 5258 | 5283 | 9 23.4 |
| 1680 | 22 5309 | 5335 | 5361 | 5387 | 5413 | 5439 | 5464 | 5490 | 5516 | 5542 | 25 |
| 81 | 5568 | 5594 | 5619 | 5645 | 5671 | 5697 | 5723 | 5749 | 5774 | 5800 | 1 2.5 |
| 82 | 5826 | 5852 | 5878 | 5903 | 5929 | 5955 | 5981 | 6007 | 6033 | 6058 | 2 5.0 |
| 83 | 6084 | 6110 | 6136 | 6162 | 6187 | 6213 | 6239 | 6265 | 6291 | 6316 | 3 7.5 |
| 84 | 6342 | 6368 | 6394 | 6419 | 6445 | 6471 | 6497 | 6523 | 6548 | 6574 | 4 10.0 |
| 85 | 22 6600 | 6626 | 6651 | 6677 | 6703 | 6729 | 6755 | 6780 | 6806 | 6832 | 5 12.5 |
| 86 | 6858 | 6883 | 6909 | 6935 | 6961 | 6986 | 7012 | 7038 | 7064 | 7089 | 6 15.0 |
| 87 | 7115 | 7141 | 7167 | 7192 | 7218 | 7244 | 7270 | 7295 | 7321 | 7347 | 7 17.5 |
| 88 | 7372 | 7398 | 7424 | 7450 | 7475 | 7501 | 7527 | 7553 | 7578 | 7604 | 8 20.0 |
| 89 | 7630 | 7655 | 7681 | 7707 | 7732 | 7758 | 7784 | 7810 | 7835 | 7861 | 9 22.5 |
| 1690 | 22 7887 | 7912 | 7938 | 7964 | 7989 | 8015 | 8041 | 8067 | 8092 | 8118 | |
| 91 | 8144 | 8169 | 8195 | 8221 | 8246 | 8272 | 8298 | 8323 | 8349 | 8375 | |
| 92 | 8400 | 8426 | 8452 | 8477 | 8503 | 8529 | 8554 | 8580 | 8606 | 8631 | |
| 93 | 8657 | 8683 | 8708 | 8734 | 8760 | 8785 | 8811 | 8836 | 8862 | 8888 | |
| 94 | 8913 | 8939 | 8965 | 8990 | 9016 | 9042 | 9067 | 9093 | 9118 | 9144 | |
| 95 | 22 9170 | 9195 | 9221 | 9247 | 9272 | 9298 | 9323 | 9349 | 9375 | 9400 | |
| 96 | 9426 | 9451 | 9477 | 9503 | 9528 | 9554 | 9579 | 9605 | 9631 | 9656 | |
| 97 | 9682 | 9707 | 9733 | 9759 | 9784 | 9810 | 9835 | 9861 | 9887 | 9912 | |
| 98 | 9938 | 9963 | 9989 | 0014 | 0040 | 0066 | 0091 | 0117 | 0142 | 0168 | |
| 99 | 23 0193 | 0219 | 0244 | 0270 | 0296 | 0321 | 0347 | 0372 | 0398 | 0423 | |
| 1700 | 23 0449 | 0474 | 0500 | 0526 | 0551 | 0577 | 0602 | 0628 | 0653 | 0679 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 16500" = 4° 35' 0" | | | | 1650" = 0° 27' 30" | | | S. 4.685 | 570 | T. 584 | |
| | 16600" = 4 36 40 | | | | 1660" = 0 27 40 | | | | 570 | 584 | |
| | 16700" = 4 38 20 | | | | 1670" = 0 27 50 | | | | 570 | 584 | |
| | 16800" = 4 40 0 | | | | 1680" = 0 28 0 | | | | 570 | 584 | |
| | 16900" = 4 41 40 | | | | 1690" = 0 28 10 | | | | 570 | 585 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|---------------------|------|----------|------|--------|-------|--------|
| 1700 | 23 0149 | C174 | C550 | C526 | C551 | 0577 | 0602 | 0628 | 0653 | 0679 | |
| 01 | 0704 | C730 | 0755 | C781 | C806 | 0832 | 0857 | 0883 | 0909 | 0934 | |
| 02 | 0960 | 0985 | 1011 | 1036 | 1062 | 1087 | 1113 | 1138 | 1164 | 1189 | |
| 03 | 1215 | 1240 | 1266 | 1291 | 1317 | 1342 | 1368 | 1393 | 1419 | 1444 | |
| 04 | 1470 | 1495 | 1521 | 1546 | 1572 | 1597 | 1622 | 1648 | 1673 | 1699 | |
| 05 | 23 1724 | 1750 | 1775 | 1801 | 1826 | 1852 | 1877 | 1903 | 1928 | 1954 | |
| 06 | 1979 | 2004 | 2030 | 2055 | 2081 | 2106 | 2132 | 2157 | 2183 | 2208 | |
| 07 | 2234 | 2259 | 2284 | 2310 | 2335 | 2361 | 2386 | 2412 | 2437 | 2462 | |
| 08 | 2488 | 2513 | 2539 | 2564 | 2590 | 2615 | 2640 | 2666 | 2691 | 2717 | |
| 09 | 2742 | 2767 | 2793 | 2818 | 2844 | 2869 | 2895 | 2920 | 2945 | 2971 | |
| 1710 | 23 2996 | 3022 | 3047 | 3072 | 3098 | 3123 | 3148 | 3174 | 3199 | 3225 | |
| 11 | 3250 | 3275 | 3301 | 3326 | 3352 | 3377 | 3402 | 3428 | 3453 | 3478 | 26 |
| 12 | 3504 | 3529 | 3554 | 3580 | 3605 | 3631 | 3656 | 3681 | 3707 | 3732 | 1 2.6 |
| 13 | 3757 | 3783 | 3808 | 3833 | 3859 | 3884 | 3909 | 3935 | 3960 | 3985 | 2 5.2 |
| 14 | 4011 | 4036 | 4061 | 4087 | 4112 | 4137 | 4163 | 4188 | 4213 | 4239 | 3 7.8 |
| 15 | 23 4264 | 4289 | 4315 | 4340 | 4365 | 4391 | 4416 | 4441 | 4467 | 4492 | 4 10.4 |
| 16 | 4517 | 4543 | 4568 | 4593 | 4619 | 4644 | 4669 | 4694 | 4720 | 4745 | 5 13.0 |
| 17 | 4770 | 4796 | 4821 | 4846 | 4871 | 4897 | 4922 | 4947 | 4973 | 4998 | 6 15.6 |
| 18 | 5023 | 5048 | 5074 | 5099 | 5124 | 5150 | 5175 | 5200 | 5225 | 5251 | 7 18.2 |
| 19 | 5276 | 5301 | 5326 | 5352 | 5377 | 5402 | 5427 | 5453 | 5478 | 5503 | 8 20.8 |
| 1720 | 23 5528 | 5554 | 5579 | 5604 | 5629 | 5655 | 5680 | 5705 | 5730 | 5756 | 9 23.4 |
| 21 | 5781 | 5806 | 5831 | 5857 | 5882 | 5907 | 5932 | 5957 | 5983 | 6008 | |
| 22 | 6033 | 6058 | 6084 | 6109 | 6134 | 6159 | 6184 | 6210 | 6235 | 6260 | |
| 23 | 6285 | 6310 | 6336 | 6361 | 6386 | 6411 | 6436 | 6462 | 6487 | 6512 | |
| 24 | 6537 | 6562 | 6588 | 6613 | 6638 | 6663 | 6688 | 6714 | 6739 | 6764 | |
| 25 | 23 6789 | 6814 | 6839 | 6865 | 6890 | 6915 | 6940 | 6965 | 6990 | 7016 | |
| 26 | 7041 | 7066 | 7091 | 7116 | 7141 | 7167 | 7192 | 7217 | 7242 | 7267 | |
| 27 | 7292 | 7317 | 7343 | 7368 | 7393 | 7418 | 7443 | 7468 | 7493 | 7519 | |
| 28 | 7544 | 7569 | 7594 | 7619 | 7644 | 7669 | 7695 | 7720 | 7745 | 7770 | |
| 29 | 7795 | 7820 | 7845 | 7870 | 7895 | 7921 | 7946 | 7971 | 7996 | 8021 | |
| 1730 | 23 8046 | 8071 | 8096 | 8121 | 8147 | 8172 | 8197 | 8222 | 8247 | 8272 | |
| 31 | 8297 | 8322 | 8347 | 8372 | 8397 | 8422 | 8448 | 8473 | 8498 | 8523 | 25 |
| 32 | 8548 | 8573 | 8598 | 8623 | 8648 | 8673 | 8698 | 8723 | 8748 | 8774 | 1 2.5 |
| 33 | 8799 | 8824 | 8849 | 8874 | 8899 | 8924 | 8949 | 8974 | 8999 | 9024 | 2 5.0 |
| 34 | 9049 | 9074 | 9099 | 9124 | 9149 | 9174 | 9199 | 9224 | 9249 | 9274 | 3 7.5 |
| 35 | 23 9299 | 9325 | 9350 | 9375 | 9400 | 9425 | 9450 | 9475 | 9500 | 9525 | 4 10.0 |
| 36 | 9550 | 9575 | 9600 | 9625 | 9650 | 9675 | 9700 | 9725 | 9750 | 9775 | 5 12.5 |
| 37 | 9800 | 9825 | 9850 | 9875 | 9900 | 9925 | 9950 | 9975 | 10000 | 10025 | 6 15.0 |
| 38 | 24 0050 | 0075 | 0100 | 0125 | 0150 | 0175 | 0200 | 0225 | 0250 | 0275 | 7 17.5 |
| 39 | 0300 | 0325 | 0350 | 0374 | 0399 | 0424 | 0449 | 0474 | 0499 | 0524 | 8 20.0 |
| 1740 | 24 0549 | 0574 | 0599 | 0624 | 0649 | 0674 | 0699 | 0724 | 0749 | 0774 | 9 22.5 |
| 41 | 0799 | 0824 | 0849 | 0874 | 0899 | 0923 | 0948 | 0973 | 0998 | 1023 | |
| 42 | 1048 | 1073 | 1098 | 1123 | 1148 | 1173 | 1198 | 1223 | 1248 | 1272 | |
| 43 | 1297 | 1322 | 1347 | 1372 | 1397 | 1422 | 1447 | 1472 | 1497 | 1522 | |
| 44 | 1546 | 1571 | 1596 | 1621 | 1646 | 1671 | 1696 | 1721 | 1746 | 1771 | |
| 45 | 24 1795 | 1820 | 1845 | 1870 | 1895 | 1920 | 1945 | 1970 | 1994 | 2019 | |
| 46 | 2044 | 2069 | 2094 | 2119 | 2144 | 2169 | 2193 | 2218 | 2243 | 2268 | |
| 47 | 2293 | 2318 | 2343 | 2367 | 2392 | 2417 | 2442 | 2467 | 2492 | 2517 | |
| 48 | 2541 | 2566 | 2591 | 2616 | 2641 | 2666 | 2690 | 2715 | 2740 | 2765 | |
| 49 | 2790 | 2815 | 2839 | 2864 | 2889 | 2914 | 2939 | 2964 | 2988 | 3013 | |
| 1750 | 24 3038 | 3063 | 3088 | 3112 | 3137 | 3162 | 3187 | 3212 | 3237 | 3261 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 17000" = 4° 43' 20" | | | | 17000" = 0° 28' 20" | | S. 4.685 | 570 | T. 585 | | |
| | 17100 = 4 45 0 | | | | 17100 = 0 28 30 | | | 570 | 585 | | |
| | 17200 = 4 46 40 | | | | 17200 = 0 28 40 | | | 570 | 585 | | |
| | 17300 = 4 48 20 | | | | 17300 = 0 28 50 | | | 570 | 585 | | |
| | 17400 = 4 50 0 | | | | 17400 = 0 29 0 | | | 570 | 585 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------------|------|------|-------|--------------------|-------|-------|----------|-------|--------|--------|
| 1750 | 24 3038 | 3063 | 3088 | 3112 | 3137 | 3162 | 3187 | 3212 | 3237 | 3261 | |
| 51 | 3286 | 3311 | 3336 | 3361 | 3385 | 3410 | 3435 | 3460 | 3485 | 3509 | |
| 52 | 3534 | 3559 | 3584 | 3608 | 3633 | 3658 | 3683 | 3708 | 3732 | 3757 | |
| 53 | 3782 | 3807 | 3831 | 3856 | 3881 | 3906 | 3931 | 3955 | 3980 | 4005 | |
| 54 | 4030 | 4054 | 4079 | 4104 | 4129 | 4153 | 4178 | 4203 | 4228 | 4252 | |
| 55 | 24 4277 | 4302 | 4327 | 4351 | 4376 | 4401 | 4426 | 4450 | 4475 | 4500 | |
| 56 | 4525 | 4549 | 4574 | 4599 | 4623 | 4648 | 4673 | 4698 | 4722 | 4747 | |
| 57 | 4772 | 4796 | 4821 | 4846 | 4871 | 4895 | 4920 | 4945 | 4969 | 4994 | |
| 58 | 5019 | 5044 | 5068 | 5093 | 5118 | 5142 | 5167 | 5192 | 5216 | 5241 | |
| 59 | 5266 | 5291 | 5315 | 5340 | 5365 | 5389 | 5414 | 5439 | 5463 | 5488 | |
| 1760 | 24 5513 | 5537 | 5562 | 5587 | 5611 | 5636 | 5661 | 5685 | 5710 | 5735 | |
| 61 | 5759 | 5784 | 5809 | 5833 | 5858 | 5883 | 5907 | 5932 | 5957 | 5981 | 25 |
| 62 | 6006 | 6031 | 6055 | 6080 | 6104 | 6129 | 6154 | 6178 | 6203 | 6228 | 1 2.5 |
| 63 | 6252 | 6277 | 6302 | 6326 | 6351 | 6375 | 6400 | 6425 | 6449 | 6474 | 2 5.0 |
| 64 | 6499 | 6523 | 6548 | 6572 | 6597 | 6622 | 6646 | 6671 | 6695 | 6720 | 3 7.5 |
| 65 | 24 6745 | 6769 | 6794 | 6819 | 6843 | 6868 | 6892 | 6917 | 6942 | 6966 | 4 10.0 |
| 66 | 6991 | 7015 | 7040 | 7064 | 7089 | 7114 | 7138 | 7163 | 7187 | 7212 | 5 12.5 |
| 67 | 7237 | 7261 | 7286 | 7310 | 7335 | 7359 | 7384 | 7409 | 7433 | 7458 | 6 15.0 |
| 68 | 7482 | 7507 | 7531 | 7556 | 7581 | 7605 | 7630 | 7654 | 7679 | 7703 | 7 17.5 |
| 69 | 7728 | 7752 | 7777 | 7801 | 7826 | 7851 | 7875 | 7900 | 7924 | 7949 | 8 20.0 |
| 1770 | 24 7973 | 8022 | 8071 | 8120 | 8169 | 8218 | 8267 | 8316 | 8365 | 8414 | 9 22.5 |
| 71 | 8463 | 8512 | 8561 | 8610 | 8659 | 8708 | 8757 | 8806 | 8855 | 8904 | |
| 72 | 8953 | 9002 | 9051 | 9100 | 9149 | 9198 | 9247 | 9296 | 9345 | 9394 | |
| 73 | 9443 | 9492 | 9541 | 9590 | 9639 | 9688 | 9737 | 9786 | 9835 | 9884 | |
| 74 | 8954 | 8978 | 9003 | 9027 | 9052 | 9076 | 9100 | 9125 | 9149 | 9174 | |
| 75 | 24 9198 | 9223 | 9247 | 9272 | 9296 | 9321 | 9345 | 9370 | 9394 | 9419 | |
| 76 | 9443 | 9467 | 9492 | 9516 | 9541 | 9565 | 9590 | 9614 | 9639 | 9663 | |
| 77 | 9687 | 9712 | 9736 | 9761 | 9785 | 9810 | 9834 | 9858 | 9883 | 9907 | |
| 78 | 9932 | 9956 | 9981 | 10005 | 10029 | 10054 | 10078 | 10103 | 10127 | 10152 | |
| 79 | 25 0176 | 0200 | 0225 | 0249 | 0274 | 0298 | 0322 | 0347 | 0371 | 0396 | |
| 1780 | 25 0420 | 0444 | 0469 | 0493 | 0518 | 0542 | 0566 | 0591 | 0615 | 0640 | |
| 81 | 0664 | 0688 | 0713 | 0737 | 0761 | 0786 | 0810 | 0835 | 0859 | 0883 | 24 |
| 82 | 0908 | 0932 | 0956 | 0981 | 1005 | 1030 | 1054 | 1078 | 1103 | 1127 | 1 2.4 |
| 83 | 1151 | 1176 | 1200 | 1224 | 1249 | 1273 | 1297 | 1322 | 1346 | 1371 | 2 4.8 |
| 84 | 1395 | 1419 | 1444 | 1468 | 1492 | 1517 | 1541 | 1565 | 1590 | 1614 | 3 7.2 |
| 85 | 25 1638 | 1663 | 1687 | 1711 | 1736 | 1760 | 1784 | 1808 | 1833 | 1857 | 4 9.6 |
| 86 | 1881 | 1906 | 1930 | 1954 | 1979 | 2003 | 2027 | 2052 | 2076 | 2100 | 5 12.0 |
| 87 | 2125 | 2149 | 2173 | 2197 | 2222 | 2246 | 2270 | 2295 | 2319 | 2343 | 6 14.4 |
| 88 | 2368 | 2392 | 2416 | 2440 | 2465 | 2489 | 2513 | 2538 | 2562 | 2586 | 7 16.8 |
| 89 | 2610 | 2635 | 2659 | 2683 | 2707 | 2732 | 2756 | 2780 | 2805 | 2829 | 8 19.2 |
| 1790 | 25 2853 | 2877 | 2902 | 2926 | 2950 | 2974 | 2999 | 3023 | 3047 | 3071 | 9 21.6 |
| 91 | 3096 | 3120 | 3144 | 3168 | 3193 | 3217 | 3241 | 3265 | 3290 | 3314 | |
| 92 | 3338 | 3362 | 3386 | 3411 | 3435 | 3459 | 3483 | 3508 | 3532 | 3556 | |
| 93 | 3580 | 3605 | 3629 | 3653 | 3677 | 3701 | 3726 | 3750 | 3774 | 3798 | |
| 94 | 3822 | 3847 | 3871 | 3895 | 3919 | 3943 | 3968 | 3992 | 4016 | 4040 | |
| 95 | 25 4064 | 4089 | 4113 | 4137 | 4161 | 4185 | 4210 | 4234 | 4258 | 4282 | |
| 96 | 4306 | 4331 | 4355 | 4379 | 4403 | 4427 | 4451 | 4476 | 4500 | 4524 | |
| 97 | 4548 | 4572 | 4596 | 4621 | 4645 | 4669 | 4693 | 4717 | 4741 | 4766 | |
| 98 | 4790 | 4814 | 4838 | 4862 | 4886 | 4910 | 4935 | 4959 | 4983 | 5007 | |
| 99 | 5031 | 5055 | 5079 | 5104 | 5128 | 5152 | 5176 | 5200 | 5224 | 5248 | |
| 1800 | 25 5273 | 5297 | 5321 | 5345 | 5369 | 5393 | 5417 | 5441 | 5465 | 5490 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 1750" | 4° 51' 40" | | | | 1750° = 0° 29' 10" | | | S. 4.685 | 570 | T. 585 | |
| 17600 | 4 53 20 | | | | 1760 = 0 29 20 | | | | 570 | 585 | |
| 17700 | 4 55 0 | | | | 1770 = 0 29 30 | | | | 570 | 586 | |
| 17800 | 4 56 40 | | | | 1780 = 0 29 40 | | | | 569 | 586 | |
| 17900 | 4 58 20 | | | | 1790 = 0 29 50 | | | | 569 | 586 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|-------------------|------|------|------|-------------------|------|----------|------|--------|------|--------|
| 1800 | 25 5273 | 5297 | 5321 | 5345 | 5369 | 5393 | 5417 | 5441 | 5465 | 5490 | |
| 01 | 5514 | 5538 | 5562 | 5586 | 5610 | 5634 | 5658 | 5682 | 5707 | 5731 | |
| 02 | 5755 | 5779 | 5803 | 5827 | 5851 | 5875 | 5899 | 5923 | 5948 | 5972 | |
| 03 | 5996 | 6020 | 6044 | 6068 | 6092 | 6116 | 6140 | 6164 | 6188 | 6212 | |
| 04 | 6237 | 6261 | 6285 | 6309 | 6333 | 6357 | 6381 | 6405 | 6429 | 6453 | |
| 05 | 25 6477 | 6501 | 6525 | 6549 | 6573 | 6597 | 6622 | 6646 | 6670 | 6694 | |
| 06 | 6718 | 6742 | 6766 | 6790 | 6814 | 6838 | 6862 | 6886 | 6910 | 6934 | |
| 07 | 6958 | 6982 | 7006 | 7030 | 7054 | 7078 | 7102 | 7126 | 7150 | 7174 | |
| 08 | 7198 | 7222 | 7246 | 7270 | 7294 | 7319 | 7343 | 7367 | 7391 | 7415 | |
| 09 | 7439 | 7463 | 7487 | 7511 | 7535 | 7559 | 7583 | 7607 | 7631 | 7655 | |
| 1810 | 25 7679 | 7703 | 7727 | 7751 | 7775 | 7799 | 7823 | 7847 | 7870 | 7894 | |
| 11 | 7918 | 7942 | 7966 | 7990 | 8014 | 8038 | 8062 | 8086 | 8110 | 8134 | 25 |
| 12 | 8158 | 8182 | 8206 | 8230 | 8254 | 8278 | 8302 | 8326 | 8350 | 8374 | 1 2.5 |
| 13 | 8398 | 8422 | 8446 | 8470 | 8494 | 8518 | 8542 | 8565 | 8589 | 8613 | 2 5.0 |
| 14 | 8637 | 8661 | 8685 | 8709 | 8733 | 8757 | 8781 | 8805 | 8829 | 8853 | 3 7.5 |
| 15 | 25 8877 | 8901 | 8924 | 8948 | 8972 | 8996 | 9020 | 9044 | 9068 | 9092 | 4 10.0 |
| 16 | 9116 | 9140 | 9164 | 9188 | 9211 | 9235 | 9259 | 9283 | 9307 | 9331 | 5 12.5 |
| 17 | 9355 | 9379 | 9403 | 9427 | 9451 | 9474 | 9498 | 9522 | 9546 | 9570 | 6 15.0 |
| 18 | 9594 | 9618 | 9642 | 9666 | 9689 | 9713 | 9737 | 9761 | 9785 | 9809 | 7 17.5 |
| 19 | 9833 | 9857 | 9880 | 9904 | 9928 | 9952 | 9976 | 0000 | 0024 | 0048 | 8 20.0 |
| 1820 | 26 0071 | 0095 | 0119 | 0143 | 0167 | 0191 | 0215 | 0238 | 0262 | 0286 | 9 22.5 |
| 21 | 0310 | 0334 | 0358 | 0381 | 0405 | 0429 | 0453 | 0477 | 0501 | 0525 | |
| 22 | 0548 | 0572 | 0596 | 0620 | 0644 | 0668 | 0691 | 0715 | 0739 | 0763 | |
| 23 | 0787 | 0810 | 0834 | 0858 | 0882 | 0906 | 0930 | 0953 | 0977 | 1001 | |
| 24 | 1025 | 1049 | 1072 | 1096 | 1120 | 1144 | 1168 | 1191 | 1215 | 1239 | |
| 25 | 26 1263 | 1287 | 1310 | 1334 | 1358 | 1382 | 1406 | 1429 | 1453 | 1477 | |
| 26 | 1501 | 1525 | 1548 | 1572 | 1596 | 1620 | 1643 | 1667 | 1691 | 1715 | |
| 27 | 1739 | 1762 | 1786 | 1810 | 1834 | 1857 | 1881 | 1905 | 1929 | 1952 | |
| 28 | 1976 | 2000 | 2024 | 2047 | 2071 | 2095 | 2119 | 2142 | 2166 | 2190 | |
| 29 | 2214 | 2237 | 2261 | 2285 | 2309 | 2332 | 2356 | 2380 | 2404 | 2427 | |
| 1830 | 26 2451 | 2475 | 2499 | 2522 | 2546 | 2570 | 2593 | 2617 | 2641 | 2665 | |
| 31 | 2688 | 2712 | 2736 | 2759 | 2783 | 2807 | 2831 | 2854 | 2878 | 2902 | 24 |
| 32 | 2925 | 2949 | 2973 | 2997 | 3020 | 3044 | 3068 | 3091 | 3115 | 3139 | 1 2.4 |
| 33 | 3162 | 3186 | 3210 | 3234 | 3257 | 3281 | 3305 | 3328 | 3352 | 3376 | 2 4.8 |
| 34 | 3399 | 3423 | 3447 | 3470 | 3494 | 3518 | 3541 | 3565 | 3589 | 3612 | 3 7.2 |
| 35 | 26 3636 | 3660 | 3683 | 3707 | 3731 | 3754 | 3778 | 3802 | 3825 | 3849 | 4 9.6 |
| 36 | 3873 | 3896 | 3920 | 3944 | 3967 | 3991 | 4015 | 4038 | 4062 | 4086 | 5 12.0 |
| 37 | 4109 | 4133 | 4156 | 4180 | 4204 | 4227 | 4251 | 4275 | 4298 | 4322 | 6 14.4 |
| 38 | 4346 | 4369 | 4393 | 4416 | 4440 | 4464 | 4487 | 4511 | 4534 | 4558 | 7 16.8 |
| 39 | 4582 | 4605 | 4629 | 4653 | 4676 | 4700 | 4723 | 4747 | 4771 | 4794 | 8 19.2 |
| 1840 | 26 4818 | 4841 | 4865 | 4889 | 4912 | 4936 | 4959 | 4983 | 5007 | 5030 | 9 21.6 |
| 41 | 5054 | 5077 | 5101 | 5125 | 5148 | 5172 | 5195 | 5219 | 5242 | 5266 | |
| 42 | 5290 | 5313 | 5337 | 5360 | 5384 | 5407 | 5431 | 5455 | 5478 | 5502 | |
| 43 | 5525 | 5549 | 5572 | 5596 | 5620 | 5643 | 5667 | 5690 | 5714 | 5737 | |
| 44 | 5761 | 5784 | 5808 | 5832 | 5855 | 5879 | 5902 | 5926 | 5949 | 5973 | |
| 45 | 26 5996 | 6020 | 6043 | 6067 | 6091 | 6114 | 6138 | 6161 | 6185 | 6208 | |
| 46 | 6232 | 6255 | 6279 | 6302 | 6326 | 6349 | 6373 | 6396 | 6420 | 6443 | |
| 47 | 6467 | 6490 | 6514 | 6537 | 6561 | 6584 | 6608 | 6631 | 6655 | 6678 | |
| 48 | 6702 | 6725 | 6749 | 6772 | 6796 | 6819 | 6843 | 6866 | 6890 | 6913 | |
| 49 | 6937 | 6960 | 6984 | 7007 | 7031 | 7054 | 7078 | 7101 | 7125 | 7148 | |
| 1850 | 26 7172 | 7195 | 7219 | 7242 | 7266 | 7289 | 7313 | 7336 | 7359 | 7383 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 18000" = 5° 0' 0" | | | | 1800" = 0° 30' 0" | | S. 4.685 | 569 | T. 586 | | |
| | 18100" = 5 1 40 | | | | 18100" = 0 30 10 | | | 569 | 586 | | |
| | 18200" = 5 3 20 | | | | 18200" = 0 30 20 | | | 569 | 586 | | |
| | 18300" = 5 5 0 | | | | 18300" = 0 30 30 | | | 569 | 586 | | |
| | 18400" = 5 6 40 | | | | 18400" = 0 30 40 | | | 569 | 586 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------|-----------|------|------|------|-------|------|------------|----------|------|--------|
| 1850 | 26 7172 | 7195 | 7219 | 7242 | 7266 | 7289 | 7313 | 7336 | 7359 | 7383 | |
| 51 | 7406 | 7430 | 7453 | 7477 | 7500 | 7524 | 7547 | 7571 | 7594 | 7618 | |
| 52 | 7641 | 7664 | 7688 | 7711 | 7735 | 7758 | 7782 | 7805 | 7829 | 7852 | |
| 53 | 7875 | 7899 | 7922 | 7946 | 7969 | 7993 | 8016 | 8039 | 8063 | 8086 | |
| 54 | 8110 | 8133 | 8157 | 8180 | 8203 | 8227 | 8250 | 8274 | 8297 | 8321 | |
| 55 | 26 8344 | 8367 | 8391 | 8414 | 8438 | 8461 | 8484 | 8508 | 8531 | 8555 | |
| 56 | 8578 | 8601 | 8625 | 8648 | 8672 | 8695 | 8718 | 8742 | 8765 | 8789 | |
| 57 | 8812 | 8835 | 8859 | 8882 | 8905 | 8929 | 8952 | 8976 | 8999 | 9022 | |
| 58 | 9046 | 9069 | 9092 | 9116 | 9139 | 9163 | 9186 | 9209 | 9233 | 9256 | |
| 59 | 9279 | 9303 | 9326 | 9349 | 9373 | 9396 | 9420 | 9443 | 9466 | 9490 | |
| 1860 | 26 9513 | 9536 | 9560 | 9583 | 9606 | 9630 | 9653 | 9676 | 9700 | 9723 | |
| 61 | 9746 | 9770 | 9793 | 9816 | 9840 | 9863 | 9886 | 9910 | 9933 | 9956 | 23 |
| 62 | 9980 | 0003 | 0026 | 0050 | 0073 | 0096 | 0120 | 0143 | 0166 | 0190 | 1 2.3 |
| 63 | 27 0213 | 0236 | 0259 | 0283 | 0306 | 0329 | 0353 | 0376 | 0399 | 0423 | 2 4.6 |
| 64 | 0446 | 0469 | 0493 | 0516 | 0539 | 0562 | 0586 | 0609 | 0632 | 0656 | 3 6.9 |
| 65 | 27 0679 | 0702 | 0725 | 0749 | 0772 | 0795 | 0819 | 0842 | 0865 | 0888 | 4 9.2 |
| 66 | 0912 | 0935 | 0958 | 0981 | 1005 | 1028 | 1051 | 1075 | 1098 | 1121 | 5 11.5 |
| 67 | 1144 | 1168 | 1191 | 1214 | 1237 | 1261 | 1284 | 1307 | 1330 | 1354 | 6 13.8 |
| 68 | 1377 | 1400 | 1423 | 1447 | 1470 | 1493 | 1516 | 1540 | 1563 | 1586 | 7 16.1 |
| 69 | 1609 | 1633 | 1656 | 1679 | 1702 | 1725 | 1749 | 1772 | 1795 | 1818 | 8 18.4 |
| 1870 | 27 1842 | 1865 | 1888 | 1911 | 1934 | 1958 | 1981 | 2004 | 2027 | 2051 | 9 20.7 |
| 71 | 2074 | 2097 | 2120 | 2143 | 2167 | 2190 | 2213 | 2236 | 2259 | 2283 | |
| 72 | 2306 | 2329 | 2352 | 2375 | 2399 | 2422 | 2445 | 2468 | 2491 | 2515 | |
| 73 | 2538 | 2561 | 2584 | 2607 | 2631 | 2654 | 2677 | 2700 | 2723 | 2746 | |
| 74 | 2770 | 2793 | 2816 | 2839 | 2862 | 2885 | 2909 | 2932 | 2955 | 2978 | |
| 75 | 27 3001 | 3024 | 3048 | 3071 | 3094 | 3117 | 3140 | 3163 | 3187 | 3210 | |
| 76 | 3233 | 3256 | 3279 | 3302 | 3325 | 3349 | 3372 | 3395 | 3418 | 3441 | |
| 77 | 3464 | 3487 | 3511 | 3534 | 3557 | 3580 | 3603 | 3626 | 3649 | 3672 | |
| 78 | 3696 | 3719 | 3742 | 3765 | 3788 | 3811 | 3834 | 3857 | 3881 | 3904 | |
| 79 | 3927 | 3950 | 3973 | 3996 | 4019 | 4042 | 4065 | 4089 | 4112 | 4135 | |
| 1880 | 27 4158 | 4181 | 4204 | 4227 | 4250 | 4273 | 4296 | 4320 | 4343 | 4366 | |
| 81 | 4389 | 4412 | 4435 | 4458 | 4481 | 4504 | 4527 | 4550 | 4573 | 4597 | 22 |
| 82 | 4620 | 4643 | 4666 | 4689 | 4712 | 4735 | 4758 | 4781 | 4804 | 4827 | 1 2.2 |
| 83 | 4850 | 4873 | 4896 | 4920 | 4943 | 4966 | 4989 | 5012 | 5035 | 5058 | 2 4.4 |
| 84 | 5081 | 5104 | 5127 | 5150 | 5173 | 5196 | 5219 | 5242 | 5265 | 5288 | 3 6.6 |
| 85 | 27 5311 | 5334 | 5357 | 5380 | 5404 | 5427 | 5450 | 5473 | 5496 | 5519 | 4 8.8 |
| 86 | 5542 | 5565 | 5588 | 5611 | 5634 | 5657 | 5680 | 5703 | 5726 | 5749 | 5 11.0 |
| 87 | 5772 | 5795 | 5818 | 5841 | 5864 | 5887 | 5910 | 5933 | 5956 | 5979 | 6 13.2 |
| 88 | 6002 | 6025 | 6048 | 6071 | 6094 | 6117 | 6140 | 6163 | 6186 | 6209 | 7 15.4 |
| 89 | 6232 | 6255 | 6278 | 6301 | 6324 | 6347 | 6370 | 6393 | 6416 | 6439 | 8 17.6 |
| 1890 | 27 6462 | 6485 | 6508 | 6531 | 6554 | 6577 | 6600 | 6623 | 6646 | 6669 | 9 19.8 |
| 91 | 6692 | 6714 | 6737 | 6760 | 6783 | 6806 | 6829 | 6852 | 6875 | 6898 | |
| 92 | 6921 | 6944 | 6967 | 6990 | 7013 | 7036 | 7059 | 7082 | 7105 | 7128 | |
| 93 | 7151 | 7174 | 7196 | 7219 | 7242 | 7265 | 7288 | 7311 | 7334 | 7357 | |
| 94 | 7380 | 7403 | 7426 | 7449 | 7472 | 7495 | 7518 | 7540 | 7563 | 7586 | |
| 95 | 27 7609 | 7632 | 7655 | 7678 | 7701 | 7724 | 7747 | 7770 | 7793 | 7815 | |
| 96 | 7838 | 7861 | 7884 | 7907 | 7930 | 7953 | 7976 | 7999 | 8022 | 8044 | |
| 97 | 8067 | 8090 | 8113 | 8136 | 8159 | 8182 | 8205 | 8228 | 8250 | 8273 | |
| 98 | 8296 | 8319 | 8342 | 8365 | 8388 | 8411 | 8433 | 8456 | 8479 | 8502 | |
| 99 | 8525 | 8548 | 8571 | 8594 | 8616 | 8639 | 8662 | 8685 | 8708 | 8731 | |
| 1900 | 27 8754 | 8776 | 8799 | 8822 | 8845 | 8868 | 8891 | 8914 | 8936 | 8959 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 18500 | = | 5° 8' 20" | | | | 18500 | = | 0° 30' 50" | S. 4.685 | 569 | T. 587 |
| 18600 | = | 5 10 0 | | | | 18600 | = | 0 31 0 | | 569 | 587 |
| 18700 | = | 5 11 40 | | | | 18700 | = | 0 31 10 | | 569 | 587 |
| 18800 | = | 5 13 20 | | | | 18800 | = | 0 31 20 | | 569 | 587 |
| 18900 | = | 5 15 0 | | | | 18900 | = | 0 31 30 | | 569 | 587 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|---------------------|------|------|----------|------|--------|--------|
| 1900 | 27 8754 | 8776 | 8799 | 8822 | 8845 | 8868 | 8891 | 8914 | 8936 | 8959 | |
| 01 | 8982 | 9005 | 9028 | 9051 | 9073 | 9096 | 9119 | 9142 | 9165 | 9188 | |
| 02 | 9211 | 9233 | 9256 | 9279 | 9302 | 9325 | 9347 | 9370 | 9393 | 9416 | |
| 03 | 9439 | 9462 | 9484 | 9507 | 9530 | 9553 | 9576 | 9599 | 9621 | 9644 | |
| 04 | 9667 | 9690 | 9713 | 9735 | 9758 | 9781 | 9804 | 9827 | 9849 | 9872 | |
| 05 | 27 9895 | 9918 | 9941 | 9963 | 9986 | 0009 | 0032 | 0055 | 0077 | 0100 | |
| 06 | 28 0123 | 0146 | 0168 | 0191 | 0214 | 0237 | 0260 | 0282 | 0305 | 0328 | |
| 07 | 0351 | 0373 | 0396 | 0419 | 0442 | 0465 | 0487 | 0510 | 0533 | 0556 | |
| 08 | 0578 | 0601 | 0624 | 0647 | 0669 | 0692 | 0715 | 0738 | 0760 | 0783 | |
| 09 | 0806 | 0829 | 0851 | 0874 | 0897 | 0920 | 0942 | 0965 | 0988 | 1011 | |
| 1910 | 28 1033 | 1056 | 1079 | 1102 | 1124 | 1147 | 1170 | 1193 | 1215 | 1238 | |
| 11 | 1261 | 1283 | 1306 | 1329 | 1352 | 1374 | 1397 | 1420 | 1442 | 1465 | 23 |
| 12 | 1488 | 1511 | 1533 | 1556 | 1579 | 1601 | 1624 | 1647 | 1670 | 1692 | 1 2.3 |
| 13 | 1715 | 1738 | 1760 | 1783 | 1806 | 1828 | 1851 | 1874 | 1897 | 1919 | 2 4.6 |
| 14 | 1942 | 1965 | 1987 | 2010 | 2033 | 2055 | 2078 | 2101 | 2123 | 2146 | 3 6.9 |
| 15 | 28 2169 | 2191 | 2214 | 2237 | 2259 | 2282 | 2305 | 2327 | 2350 | 2373 | 4 9.2 |
| 16 | 2396 | 2418 | 2441 | 2463 | 2486 | 2509 | 2531 | 2554 | 2577 | 2599 | 5 11.5 |
| 17 | 2622 | 2645 | 2667 | 2690 | 2713 | 2735 | 2758 | 2781 | 2803 | 2826 | 6 13.8 |
| 18 | 2849 | 2871 | 2894 | 2917 | 2939 | 2962 | 2984 | 3007 | 3030 | 3052 | 7 16.1 |
| 19 | 3075 | 3098 | 3120 | 3143 | 3165 | 3188 | 3211 | 3233 | 3256 | 3279 | 8 18.4 |
| 1020 | 28 3301 | 3324 | 3346 | 3369 | 3392 | 3414 | 3437 | 3460 | 3482 | 3505 | 9 20.7 |
| 21 | 3527 | 3550 | 3573 | 3595 | 3618 | 3640 | 3663 | 3686 | 3708 | 3731 | |
| 22 | 3753 | 3776 | 3799 | 3821 | 3844 | 3866 | 3889 | 3912 | 3934 | 3957 | |
| 23 | 3979 | 4002 | 4024 | 4047 | 4070 | 4092 | 4115 | 4137 | 4160 | 4182 | |
| 24 | 4205 | 4228 | 4250 | 4273 | 4295 | 4318 | 4340 | 4363 | 4386 | 4408 | |
| 25 | 28 4431 | 4453 | 4476 | 4498 | 4521 | 4544 | 4566 | 4589 | 4611 | 4634 | |
| 26 | 4656 | 4679 | 4701 | 4724 | 4746 | 4769 | 4792 | 4814 | 4837 | 4859 | |
| 27 | 4882 | 4904 | 4927 | 4949 | 4972 | 4994 | 5017 | 5039 | 5062 | 5085 | |
| 28 | 5107 | 5130 | 5152 | 5175 | 5197 | 5220 | 5242 | 5265 | 5287 | 5310 | |
| 29 | 5332 | 5355 | 5377 | 5400 | 5422 | 5445 | 5467 | 5490 | 5512 | 5535 | |
| 1930 | 28 5557 | 5580 | 5602 | 5625 | 5647 | 5670 | 5692 | 5715 | 5737 | 5760 | |
| 31 | 5782 | 5805 | 5827 | 5850 | 5872 | 5895 | 5917 | 5940 | 5962 | 5985 | 22 |
| 32 | 6007 | 6030 | 6052 | 6075 | 6097 | 6120 | 6142 | 6164 | 6187 | 6209 | 1 2.2 |
| 33 | 6232 | 6254 | 6277 | 6299 | 6322 | 6344 | 6367 | 6389 | 6412 | 6434 | 2 4.4 |
| 34 | 6456 | 6479 | 6501 | 6524 | 6546 | 6569 | 6591 | 6614 | 6636 | 6659 | 3 6.6 |
| 35 | 28 6681 | 6703 | 6726 | 6748 | 6771 | 6793 | 6816 | 6838 | 6860 | 6883 | 4 8.8 |
| 36 | 6905 | 6928 | 6950 | 6973 | 6995 | 7018 | 7040 | 7062 | 7085 | 7107 | 5 11.0 |
| 37 | 7130 | 7152 | 7174 | 7197 | 7219 | 7242 | 7264 | 7287 | 7309 | 7331 | 6 13.2 |
| 38 | 7354 | 7376 | 7399 | 7421 | 7443 | 7466 | 7488 | 7511 | 7533 | 7555 | 7 15.4 |
| 39 | 7578 | 7600 | 7623 | 7645 | 7667 | 7690 | 7712 | 7735 | 7757 | 7779 | 8 17.6 |
| 1940 | 28 7802 | 7824 | 7847 | 7869 | 7891 | 7914 | 7936 | 7958 | 7981 | 8003 | 9 19.8 |
| 41 | 8026 | 8048 | 8070 | 8093 | 8115 | 8137 | 8160 | 8182 | 8204 | 8227 | |
| 42 | 8249 | 8272 | 8294 | 8316 | 8339 | 8361 | 8383 | 8406 | 8428 | 8450 | |
| 43 | 8473 | 8495 | 8518 | 8540 | 8562 | 8585 | 8607 | 8629 | 8652 | 8674 | |
| 44 | 8696 | 8719 | 8741 | 8763 | 8786 | 8808 | 8830 | 8853 | 8875 | 8897 | |
| 45 | 28 8920 | 8942 | 8964 | 8987 | 9009 | 9031 | 9054 | 9076 | 9098 | 9121 | |
| 46 | 9143 | 9165 | 9187 | 9210 | 9232 | 9254 | 9277 | 9299 | 9321 | 9344 | |
| 47 | 9366 | 9388 | 9411 | 9433 | 9455 | 9477 | 9500 | 9522 | 9544 | 9567 | |
| 48 | 9589 | 9611 | 9634 | 9656 | 9678 | 9700 | 9723 | 9745 | 9767 | 9790 | |
| 49 | 9812 | 9834 | 9856 | 9879 | 9901 | 9923 | 9946 | 9968 | 9990 | 0012 | |
| 1950 | 29 0035 | 0057 | 0079 | 0101 | 0124 | 0146 | 0168 | 0190 | 0213 | 0235 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 19000" = 5° 16' 40" | | | | 19000" = 0° 31' 40" | | | S. 4,685 | 569 | T. 587 | |
| | 19100 = 5 18 20 | | | | 19100 = 0 31 50 | | | | 569 | 587 | |
| | 19200 = 5 20 0 | | | | 19200 = 0 32 0 | | | | 569 | 587 | |
| | 19300 = 5 21 40 | | | | 19300 = 0 32 10 | | | | 569 | 588 | |
| | 19400 = 5 23 20 | | | | 19400 = 0 32 20 | | | | 568 | 588 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|-----------|------|------|-------|-------|------------|----------|-------|--------|-------|--------|
| 1950 | 29 0035 | 0057 | 0079 | 0101 | 0124 | 0146 | 0168 | 0190 | 0213 | 0235 | |
| 51 | 0257 | 0280 | 0302 | 0324 | 0346 | 0369 | 0391 | 0413 | 0435 | 0458 | |
| 52 | 0480 | 0502 | 0524 | 0547 | 0569 | 0591 | 0613 | 0636 | 0658 | 0680 | |
| 53 | 0702 | 0724 | 0747 | 0769 | 0791 | 0813 | 0836 | 0858 | 0880 | 0902 | |
| 54 | 0925 | 0947 | 0969 | 0991 | 1013 | 1036 | 1058 | 1080 | 1102 | 1125 | |
| 55 | 29 1147 | 1169 | 1191 | 1213 | 1236 | 1258 | 1280 | 1302 | 1324 | 1347 | |
| 56 | 1369 | 1391 | 1413 | 1435 | 1458 | 1480 | 1502 | 1524 | 1546 | 1569 | |
| 57 | 1591 | 1613 | 1635 | 1657 | 1680 | 1702 | 1724 | 1746 | 1768 | 1791 | |
| 58 | 1813 | 1835 | 1857 | 1879 | 1901 | 1924 | 1946 | 1968 | 1990 | 2012 | |
| 59 | 2034 | 2057 | 2079 | 2101 | 2123 | 2145 | 2167 | 2190 | 2212 | 2234 | |
| 1960 | 29 2256 | 2278 | 2300 | 2323 | 2345 | 2367 | 2389 | 2411 | 2433 | 2455 | |
| 61 | 2478 | 2500 | 2522 | 2544 | 2566 | 2588 | 2610 | 2633 | 2655 | 2677 | 22 |
| 62 | 2699 | 2721 | 2743 | 2765 | 2788 | 2810 | 2832 | 2854 | 2876 | 2898 | 1 2.2 |
| 63 | 2920 | 2942 | 2965 | 2987 | 3009 | 3031 | 3053 | 3075 | 3097 | 3119 | 2 4.4 |
| 64 | 3141 | 3164 | 3186 | 3208 | 3230 | 3252 | 3274 | 3296 | 3318 | 3340 | 3 6.6 |
| 65 | 29 3363 | 3385 | 3407 | 3429 | 3451 | 3473 | 3495 | 3517 | 3539 | 3561 | 4 8.8 |
| 66 | 3584 | 3606 | 3628 | 3650 | 3672 | 3694 | 3716 | 3738 | 3760 | 3782 | 5 11.0 |
| 67 | 3804 | 3826 | 3849 | 3871 | 3893 | 3915 | 3937 | 3959 | 3981 | 4003 | 6 13.2 |
| 68 | 4025 | 4047 | 4069 | 4091 | 4113 | 4135 | 4157 | 4180 | 4202 | 4224 | 7 15.4 |
| 69 | 4246 | 4268 | 4290 | 4312 | 4334 | 4356 | 4378 | 4400 | 4422 | 4444 | 8 17.6 |
| 1970 | 29 4466 | 4488 | 4510 | 4532 | 4554 | 4576 | 4598 | 4621 | 4643 | 4665 | 9 19.8 |
| 71 | 4687 | 4709 | 4731 | 4753 | 4775 | 4797 | 4819 | 4841 | 4863 | 4885 | |
| 72 | 4907 | 4929 | 4951 | 4973 | 4995 | 5017 | 5039 | 5061 | 5083 | 5105 | |
| 73 | 5127 | 5149 | 5171 | 5193 | 5215 | 5237 | 5259 | 5281 | 5303 | 5325 | |
| 74 | 5347 | 5369 | 5391 | 5413 | 5435 | 5457 | 5479 | 5501 | 5523 | 5545 | |
| 75 | 29 5567 | 5589 | 5611 | 5633 | 5655 | 5677 | 5699 | 5721 | 5743 | 5765 | |
| 76 | 5787 | 5809 | 5831 | 5853 | 5875 | 5897 | 5919 | 5941 | 5963 | 5985 | |
| 77 | 6007 | 6029 | 6051 | 6073 | 6095 | 6116 | 6138 | 6160 | 6182 | 6204 | |
| 78 | 6226 | 6248 | 6270 | 6292 | 6314 | 6336 | 6358 | 6380 | 6402 | 6424 | |
| 79 | 6446 | 6468 | 6490 | 6512 | 6534 | 6556 | 6577 | 6599 | 6621 | 6643 | |
| 1980 | 29 6665 | 6687 | 6709 | 6731 | 6753 | 6775 | 6797 | 6819 | 6841 | 6863 | |
| 81 | 6884 | 6906 | 6928 | 6950 | 6972 | 6994 | 7016 | 7038 | 7060 | 7082 | 21 |
| 82 | 7104 | 7126 | 7147 | 7169 | 7191 | 7213 | 7235 | 7257 | 7279 | 7301 | 1 2.1 |
| 83 | 7323 | 7345 | 7367 | 7388 | 7410 | 7432 | 7454 | 7476 | 7498 | 7520 | 2 4.2 |
| 84 | 7542 | 7564 | 7585 | 7607 | 7629 | 7651 | 7673 | 7695 | 7717 | 7739 | 3 6.3 |
| 85 | 29 7761 | 7782 | 7804 | 7826 | 7848 | 7870 | 7892 | 7914 | 7936 | 7957 | 4 8.4 |
| 86 | 7979 | 8001 | 8023 | 8045 | 8067 | 8089 | 8110 | 8132 | 8154 | 8176 | 5 10.5 |
| 87 | 8198 | 8220 | 8242 | 8263 | 8285 | 8307 | 8329 | 8351 | 8373 | 8395 | 6 12.6 |
| 88 | 8416 | 8438 | 8460 | 8482 | 8504 | 8526 | 8547 | 8569 | 8591 | 8613 | 7 14.7 |
| 89 | 8635 | 8657 | 8678 | 8700 | 8722 | 8744 | 8766 | 8788 | 8809 | 8831 | 8 16.8 |
| 1990 | 29 8853 | 8875 | 8897 | 8919 | 8940 | 8962 | 8984 | 9006 | 9028 | 9049 | |
| 91 | 9071 | 9093 | 9115 | 9137 | 9159 | 9180 | 9202 | 9224 | 9246 | 9268 | |
| 92 | 9289 | 9311 | 9333 | 9355 | 9377 | 9398 | 9420 | 9442 | 9464 | 9486 | |
| 93 | 9507 | 9529 | 9551 | 9573 | 9594 | 9616 | 9638 | 9660 | 9682 | 9703 | |
| 94 | 9725 | 9747 | 9769 | 9790 | 9812 | 9834 | 9856 | 9878 | 9899 | 9921 | |
| 95 | 29 9943 | 9965 | 9986 | 10008 | 10030 | 10052 | 10073 | 10095 | 10117 | 10139 | |
| 96 | 30 0161 | 0182 | 0204 | 0226 | 0248 | 0269 | 0291 | 0313 | 0335 | 0356 | |
| 97 | 0378 | 0400 | 0422 | 0443 | 0465 | 0487 | 0509 | 0530 | 0552 | 0574 | |
| 98 | 0595 | 0617 | 0639 | 0661 | 0682 | 0704 | 0726 | 0748 | 0769 | 0791 | |
| 99 | 0813 | 0835 | 0856 | 0878 | 0900 | 0921 | 0943 | 0965 | 0987 | 1008 | |
| 2000 | 30 1030 | 1052 | 1073 | 1095 | 1117 | 1139 | 1160 | 1182 | 1204 | 1225 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 1950 | 0° 25' 0" | | | | 1950 | 0° 32' 30" | S. 4,685 | 568 | T. 588 | | |
| 1960 | 5 26 40 | | | | 1960 | 0 32 40 | | 568 | 588 | | |
| 1970 | 5 28 20 | | | | 1970 | 0 32 50 | | 568 | 588 | | |
| 1980 | 5 30 0 | | | | 1980 | 0 33 0 | | 568 | 588 | | |
| 1990 | 5 31 40 | | | | 1990 | 0 33 10 | | 568 | 588 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|---------------------|------|------|----------|-------|--------|--------|
| 2000 | 30 1030 | 1052 | 1073 | 1095 | 1117 | 1139 | 1160 | 1182 | 1204 | 1225 | |
| 01 | 1247 | 1269 | 1290 | 1312 | 1334 | 1356 | 1377 | 1399 | 1421 | 1442 | |
| 02 | 1404 | 1486 | 1507 | 1529 | 1551 | 1573 | 1594 | 1616 | 1638 | 1659 | |
| 03 | 1681 | 1703 | 1724 | 1746 | 1768 | 1789 | 1811 | 1833 | 1854 | 1876 | |
| 04 | 1898 | 1919 | 1941 | 1963 | 1984 | 2006 | 2028 | 2049 | 2071 | 2093 | |
| 05 | 30 2114 | 2136 | 2158 | 2179 | 2201 | 2223 | 2244 | 2266 | 2288 | 2309 | |
| 06 | 2331 | 2353 | 2374 | 2396 | 2418 | 2439 | 2461 | 2482 | 2504 | 2526 | |
| 07 | 2547 | 2569 | 2591 | 2612 | 2634 | 2656 | 2677 | 2699 | 2720 | 2742 | |
| 08 | 2764 | 2785 | 2807 | 2829 | 2850 | 2872 | 2893 | 2915 | 2937 | 2958 | |
| 09 | 2980 | 3002 | 3023 | 3045 | 3066 | 3088 | 3110 | 3131 | 3153 | 3174 | |
| 2010 | 30 3196 | 3218 | 3239 | 3261 | 3282 | 3304 | 3326 | 3347 | 3369 | 3390 | |
| 11 | 3412 | 3434 | 3455 | 3477 | 3498 | 3520 | 3542 | 3563 | 3585 | 3606 | 22 |
| 12 | 3628 | 3650 | 3671 | 3693 | 3714 | 3736 | 3757 | 3779 | 3801 | 3822 | 1 2.2 |
| 13 | 3844 | 3865 | 3887 | 3908 | 3930 | 3952 | 3973 | 3995 | 4016 | 4038 | 2 4.4 |
| 14 | 4059 | 4081 | 4103 | 4124 | 4146 | 4167 | 4189 | 4210 | 4232 | 4253 | 3 6.6 |
| 15 | 30 4275 | 4297 | 4318 | 4340 | 4361 | 4383 | 4404 | 4426 | 4447 | 4469 | 4 8.8 |
| 16 | 4491 | 4512 | 4534 | 4555 | 4577 | 4598 | 4620 | 4641 | 4663 | 4684 | 5 11.0 |
| 17 | 4706 | 4727 | 4749 | 4770 | 4792 | 4814 | 4835 | 4857 | 4878 | 4900 | 6 13.2 |
| 18 | 4921 | 4943 | 4964 | 4986 | 5007 | 5029 | 5050 | 5072 | 5093 | 5115 | 7 15.4 |
| 19 | 5136 | 5158 | 5179 | 5201 | 5222 | 5244 | 5265 | 5287 | 5308 | 5330 | 8 17.6 |
| 2020 | 30 5351 | 5373 | 5394 | 5416 | 5437 | 5459 | 5480 | 5502 | 5523 | 5545 | 9 19.8 |
| 21 | 5566 | 5588 | 5609 | 5631 | 5652 | 5674 | 5695 | 5717 | 5738 | 5760 | |
| 22 | 5781 | 5803 | 5824 | 5846 | 5867 | 5889 | 5910 | 5931 | 5953 | 5974 | |
| 23 | 5996 | 6017 | 6039 | 6060 | 6082 | 6103 | 6125 | 6146 | 6168 | 6189 | |
| 24 | 6211 | 6232 | 6253 | 6275 | 6296 | 6318 | 6339 | 6361 | 6382 | 6404 | |
| 25 | 30 6425 | 6446 | 6468 | 6489 | 6511 | 6532 | 6554 | 6575 | 6597 | 6618 | |
| 26 | 6639 | 6661 | 6682 | 6704 | 6725 | 6747 | 6768 | 6789 | 6811 | 6832 | |
| 27 | 6854 | 6875 | 6897 | 6918 | 6939 | 6961 | 6982 | 7004 | 7025 | 7047 | |
| 28 | 7068 | 7089 | 7111 | 7132 | 7154 | 7175 | 7196 | 7218 | 7239 | 7261 | |
| 29 | 7282 | 7303 | 7325 | 7346 | 7368 | 7389 | 7410 | 7432 | 7453 | 7475 | |
| 2030 | 30 7496 | 7517 | 7539 | 7560 | 7582 | 7603 | 7624 | 7646 | 7667 | 7689 | |
| 31 | 7710 | 7731 | 7753 | 7774 | 7795 | 7817 | 7838 | 7860 | 7881 | 7902 | 21 |
| 32 | 7924 | 7945 | 7966 | 7988 | 8009 | 8031 | 8052 | 8073 | 8095 | 8116 | 1 2.1 |
| 33 | 8137 | 8159 | 8180 | 8201 | 8223 | 8244 | 8266 | 8287 | 8308 | 8330 | 2 4.2 |
| 34 | 8351 | 8372 | 8394 | 8415 | 8436 | 8458 | 8479 | 8500 | 8522 | 8543 | 3 6.3 |
| 35 | 30 8564 | 8586 | 8607 | 8628 | 8650 | 8671 | 8692 | 8714 | 8735 | 8756 | 4 8.4 |
| 36 | 8778 | 8799 | 8820 | 8842 | 8863 | 8884 | 8906 | 8927 | 8948 | 8970 | 5 10.5 |
| 37 | 8991 | 9012 | 9034 | 9055 | 9076 | 9098 | 9119 | 9140 | 9162 | 9183 | 6 12.6 |
| 38 | 9204 | 9225 | 9247 | 9268 | 9289 | 9311 | 9332 | 9353 | 9375 | 9396 | 7 14.7 |
| 39 | 9417 | 9439 | 9460 | 9481 | 9502 | 9524 | 9545 | 9566 | 9588 | 9609 | 8 16.8 |
| 2040 | 30 9630 | 9651 | 9673 | 9694 | 9715 | 9737 | 9758 | 9779 | 9800 | 9822 | 9 18.9 |
| 41 | 9843 | 9864 | 9886 | 9907 | 9928 | 9949 | 9971 | 9992 | 10013 | 10034 | |
| 42 | 31 0056 | 0077 | 0098 | 0120 | 0141 | 0162 | 0183 | 0205 | 0226 | 0247 | |
| 43 | 0268 | 0290 | 0311 | 0332 | 0353 | 0375 | 0396 | 0417 | 0438 | 0460 | |
| 44 | 0481 | 0502 | 0523 | 0545 | 0566 | 0587 | 0608 | 0630 | 0651 | 0672 | |
| 45 | 31 0693 | 0715 | 0736 | 0757 | 0778 | 0799 | 0821 | 0842 | 0863 | 0884 | |
| 46 | 0906 | 0927 | 0948 | 0969 | 0991 | 1012 | 1033 | 1054 | 1075 | 1097 | |
| 47 | 1118 | 1139 | 1160 | 1181 | 1203 | 1224 | 1245 | 1266 | 1288 | 1309 | |
| 48 | 1330 | 1351 | 1372 | 1394 | 1415 | 1436 | 1457 | 1478 | 1500 | 1521 | |
| 49 | 1542 | 1563 | 1584 | 1606 | 1627 | 1648 | 1669 | 1690 | 1711 | 1733 | |
| 2050 | 31 1754 | 1775 | 1796 | 1817 | 1839 | 1860 | 1881 | 1902 | 1923 | 1944 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 20000" = 5° 33' 20" | | | | 20000" = 0° 33' 20" | | | S. 4,685 | 568 | T. 588 | |
| | 20100 = 5 35 0 | | | | 20100 = 0 33 30 | | | | 568 | 589 | |
| | 20200 = 5 36 40 | | | | 20200 = 0 33 40 | | | | 568 | 589 | |
| | 20300 = 5 38 20 | | | | 20300 = 0 33 50 | | | | 568 | 589 | |
| | 20400 = 5 40 0 | | | | 20400 = 0 34 0 | | | | 568 | 589 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|--------------------|-------|----------|-------|--------|-------|-------|--------|
| 2050 | 31 1754 | 1775 | 1796 | 1817 | 1839 | 1860 | 1881 | 1902 | 1923 | 1944 | |
| 51 | 1966 | 1987 | 2008 | 2029 | 2050 | 2072 | 2093 | 2114 | 2135 | 2156 | |
| 52 | 2177 | 2199 | 2220 | 2241 | 2262 | 2283 | 2304 | 2325 | 2347 | 2368 | |
| 53 | 2389 | 2410 | 2431 | 2452 | 2474 | 2495 | 2516 | 2537 | 2558 | 2579 | |
| 54 | 2600 | 2622 | 2643 | 2664 | 2685 | 2706 | 2727 | 2748 | 2770 | 2791 | |
| 55 | 31 2812 | 2833 | 2854 | 2875 | 2896 | 2917 | 2939 | 2960 | 2981 | 3002 | |
| 56 | 3023 | 3044 | 3065 | 3086 | 3108 | 3129 | 3150 | 3171 | 3192 | 3213 | |
| 57 | 3234 | 3255 | 3277 | 3298 | 3319 | 3340 | 3361 | 3382 | 3403 | 3424 | |
| 58 | 3445 | 3466 | 3488 | 3509 | 3530 | 3551 | 3572 | 3593 | 3614 | 3635 | |
| 59 | 3656 | 3677 | 3699 | 3720 | 3741 | 3762 | 3783 | 3804 | 3825 | 3846 | |
| 2060 | 31 3867 | 3888 | 3909 | 3930 | 3952 | 3973 | 3994 | 4015 | 4036 | 4057 | |
| 61 | 4078 | 4099 | 4120 | 4141 | 4162 | 4183 | 4204 | 4225 | 4247 | 4268 | 21 |
| 62 | 4289 | 4310 | 4331 | 4352 | 4373 | 4394 | 4415 | 4436 | 4457 | 4478 | 1 2.1 |
| 63 | 4499 | 4520 | 4541 | 4562 | 4583 | 4604 | 4626 | 4647 | 4668 | 4689 | 2 4.2 |
| 64 | 4710 | 4731 | 4752 | 4773 | 4794 | 4815 | 4836 | 4857 | 4878 | 4899 | 3 6.3 |
| 65 | 31 4920 | 4941 | 4962 | 4983 | 5004 | 5025 | 5046 | 5067 | 5088 | 5109 | 4 8.4 |
| 66 | 5130 | 5151 | 5172 | 5193 | 5214 | 5235 | 5256 | 5277 | 5298 | 5319 | 5 10.5 |
| 67 | 5340 | 5361 | 5382 | 5404 | 5425 | 5446 | 5467 | 5488 | 5509 | 5530 | 6 12.6 |
| 68 | 5551 | 5572 | 5593 | 5614 | 5635 | 5656 | 5677 | 5698 | 5719 | 5739 | 7 14.7 |
| 69 | 5760 | 5781 | 5802 | 5823 | 5844 | 5865 | 5886 | 5907 | 5928 | 5949 | 8 16.8 |
| 2070 | 31 5970 | 5991 | 6012 | 6033 | 6054 | 6075 | 6096 | 6117 | 6138 | 6159 | 9 18.9 |
| 71 | 6180 | 6201 | 6222 | 6243 | 6264 | 6285 | 6306 | 6327 | 6348 | 6369 | |
| 72 | 6390 | 6411 | 6432 | 6453 | 6474 | 6495 | 6515 | 6536 | 6557 | 6578 | |
| 73 | 6599 | 6620 | 6641 | 6662 | 6683 | 6704 | 6725 | 6746 | 6767 | 6788 | |
| 74 | 6809 | 6830 | 6851 | 6872 | 6893 | 6913 | 6934 | 6955 | 6976 | 6997 | |
| 75 | 31 7018 | 7039 | 7060 | 7081 | 7102 | 7123 | 7144 | 7165 | 7186 | 7206 | |
| 76 | 7227 | 7248 | 7269 | 7290 | 7311 | 7332 | 7353 | 7374 | 7395 | 7416 | |
| 77 | 7436 | 7457 | 7478 | 7499 | 7520 | 7541 | 7562 | 7583 | 7604 | 7625 | |
| 78 | 7646 | 7666 | 7687 | 7708 | 7729 | 7750 | 7771 | 7792 | 7813 | 7834 | |
| 79 | 7854 | 7875 | 7896 | 7917 | 7938 | 7959 | 7980 | 8001 | 8022 | 8042 | |
| 2080 | 31 8063 | 8084 | 8105 | 8126 | 8147 | 8168 | 8189 | 8209 | 8230 | 8251 | |
| 81 | 8272 | 8293 | 8314 | 8335 | 8356 | 8376 | 8397 | 8418 | 8439 | 8460 | 20 |
| 82 | 8481 | 8502 | 8522 | 8543 | 8564 | 8585 | 8606 | 8627 | 8648 | 8668 | 1 2.0 |
| 83 | 8689 | 8710 | 8731 | 8752 | 8773 | 8794 | 8814 | 8835 | 8856 | 8877 | 2 4.0 |
| 84 | 8898 | 8919 | 8939 | 8960 | 8981 | 9002 | 9023 | 9044 | 9064 | 9085 | 3 6.0 |
| 85 | 31 9106 | 9127 | 9148 | 9169 | 9189 | 9210 | 9231 | 9252 | 9273 | 9293 | 4 8.0 |
| 86 | 9314 | 9335 | 9356 | 9377 | 9398 | 9418 | 9439 | 9460 | 9481 | 9502 | 5 10.0 |
| 87 | 9522 | 9543 | 9564 | 9585 | 9606 | 9626 | 9647 | 9668 | 9689 | 9710 | 6 12.0 |
| 88 | 9730 | 9751 | 9772 | 9793 | 9814 | 9834 | 9855 | 9876 | 9897 | 9918 | 7 14.0 |
| 89 | 9938 | 9959 | 9980 | 10001 | 10022 | 10042 | 10063 | 10084 | 10105 | 10126 | 8 16.0 |
| 2090 | 32 0146 | 0167 | 0188 | 0209 | 0229 | 0250 | 0271 | 0292 | 0312 | 0333 | 9 18.0 |
| 91 | 0354 | 0375 | 0396 | 0416 | 0437 | 0458 | 0479 | 0499 | 0520 | 0541 | |
| 92 | 0562 | 0582 | 0603 | 0624 | 0645 | 0665 | 0686 | 0707 | 0728 | 0748 | |
| 93 | 0769 | 0790 | 0811 | 0831 | 0852 | 0873 | 0894 | 0914 | 0935 | 0956 | |
| 94 | 0977 | 0997 | 1018 | 1039 | 1060 | 1080 | 1101 | 1122 | 1143 | 1163 | |
| 95 | 32 1184 | 1205 | 1225 | 1246 | 1267 | 1288 | 1308 | 1329 | 1350 | 1371 | |
| 96 | 1391 | 1412 | 1433 | 1453 | 1474 | 1495 | 1516 | 1536 | 1557 | 1578 | |
| 97 | 1598 | 1619 | 1640 | 1661 | 1681 | 1702 | 1723 | 1743 | 1764 | 1785 | |
| 98 | 1805 | 1826 | 1847 | 1868 | 1888 | 1909 | 1930 | 1950 | 1971 | 1992 | |
| 99 | 2012 | 2033 | 2054 | 2075 | 2095 | 2116 | 2137 | 2157 | 2178 | 2199 | |
| 2100 | 32 2219 | 2240 | 2261 | 2281 | 2302 | 2323 | 2343 | 2364 | 2385 | 2405 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 20500" = 5° 41' 40" | | | 2050" = 0° 34' 10" | | S. 4,685 | 568 | T. 589 | | | |
| | 20600" = 5 43 20 | | | 2060" = 0 34 20 | | | 568 | 589 | | | |
| | 20700" = 5 45 0 | | | 2070" = 0 34 30 | | | 568 | 589 | | | |
| | 20800" = 5 46 40 | | | 2080" = 0 34 40 | | | 568 | 590 | | | |
| | 20900" = 5 48 20 | | | 2090" = 0 34 50 | | | 567 | 590 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|--------|------|------|-------|--------|------|----------|------|--------|--------|
| 2100 | 32 2219 | 2240 | 2261 | 2281 | 2302 | 2323 | 2343 | 2364 | 2385 | 2405 | |
| 01 | 2426 | 2447 | 2467 | 2488 | 2509 | 2529 | 2550 | 2571 | 2591 | 2612 | |
| 02 | 2633 | 2653 | 2674 | 2695 | 2715 | 2736 | 2757 | 2777 | 2798 | 2819 | |
| 03 | 2839 | 2860 | 2881 | 2901 | 2922 | 2943 | 2963 | 2984 | 3004 | 3025 | |
| 04 | 3046 | 3066 | 3087 | 3108 | 3128 | 3149 | 3170 | 3190 | 3211 | 3231 | |
| 05 | 32 3252 | 3273 | 3293 | 3314 | 3335 | 3355 | 3376 | 3396 | 3417 | 3438 | |
| 06 | 3458 | 3479 | 3500 | 3520 | 3541 | 3561 | 3582 | 3603 | 3623 | 3644 | |
| 07 | 3665 | 3685 | 3706 | 3726 | 3747 | 3768 | 3788 | 3809 | 3829 | 3850 | |
| 08 | 3871 | 3891 | 3912 | 3932 | 3953 | 3974 | 3994 | 4015 | 4035 | 4056 | |
| 09 | 4077 | 4097 | 4118 | 4138 | 4159 | 4180 | 4200 | 4221 | 4241 | 4262 | |
| 2110 | 32 4282 | 4303 | 4324 | 4344 | 4365 | 4385 | 4406 | 4427 | 4447 | 4468 | |
| 11 | 4488 | 4509 | 4529 | 4550 | 4571 | 4591 | 4612 | 4632 | 4653 | 4673 | 21 |
| 12 | 4694 | 4714 | 4735 | 4756 | 4776 | 4797 | 4817 | 4838 | 4858 | 4879 | 1 2.1 |
| 13 | 4899 | 4920 | 4941 | 4961 | 4982 | 5002 | 5023 | 5043 | 5064 | 5084 | 2 4.2 |
| 14 | 5105 | 5126 | 5146 | 5167 | 5187 | 5208 | 5228 | 5249 | 5269 | 5290 | 3 6.3 |
| 15 | 32 5310 | 5331 | 5351 | 5372 | 5393 | 5413 | 5434 | 5454 | 5475 | 5495 | 4 8.4 |
| 16 | 5516 | 5536 | 5557 | 5577 | 5598 | 5618 | 5639 | 5659 | 5680 | 5700 | 5 10.5 |
| 17 | 5721 | 5741 | 5762 | 5782 | 5803 | 5823 | 5844 | 5864 | 5885 | 5905 | 6 12.6 |
| 18 | 5926 | 5946 | 5967 | 5987 | 6008 | 6028 | 6049 | 6069 | 6090 | 6110 | 7 14.7 |
| 19 | 6131 | 6151 | 6172 | 6192 | 6213 | 6233 | 6254 | 6274 | 6295 | 6315 | 8 16.8 |
| 2120 | 32 6336 | 6356 | 6377 | 6397 | 6418 | 6438 | 6459 | 6479 | 6500 | 6520 | 9 18.9 |
| 21 | 6541 | 6561 | 6582 | 6602 | 6623 | 6643 | 6664 | 6684 | 6704 | 6725 | |
| 22 | 6745 | 6766 | 6786 | 6807 | 6827 | 6848 | 6868 | 6889 | 6909 | 6930 | |
| 23 | 6950 | 6970 | 6991 | 7011 | 7032 | 7052 | 7073 | 7093 | 7114 | 7134 | |
| 24 | 7155 | 7175 | 7195 | 7216 | 7236 | 7257 | 7277 | 7298 | 7318 | 7338 | |
| 25 | 32 7359 | 7379 | 7400 | 7420 | 7441 | 7461 | 7482 | 7502 | 7522 | 7543 | |
| 26 | 7563 | 7584 | 7604 | 7625 | 7645 | 7665 | 7686 | 7706 | 7727 | 7747 | |
| 27 | 7767 | 7788 | 7808 | 7829 | 7849 | 7870 | 7890 | 7910 | 7931 | 7951 | |
| 28 | 7972 | 7992 | 8012 | 8033 | 8053 | 8074 | 8094 | 8114 | 8135 | 8155 | |
| 29 | 8176 | 8196 | 8216 | 8237 | 8257 | 8278 | 8298 | 8318 | 8339 | 8359 | |
| 2130 | 32 8380 | 8400 | 8420 | 8441 | 8461 | 8482 | 8502 | 8522 | 8543 | 8563 | |
| 31 | 8583 | 8604 | 8624 | 8645 | 8665 | 8685 | 8706 | 8726 | 8746 | 8767 | |
| 32 | 8787 | 8808 | 8828 | 8848 | 8869 | 8889 | 8909 | 8930 | 8950 | 8970 | |
| 33 | 8991 | 9011 | 9032 | 9052 | 9072 | 9093 | 9113 | 9133 | 9154 | 9174 | |
| 34 | 9194 | 9215 | 9235 | 9255 | 9276 | 9296 | 9317 | 9337 | 9357 | 9378 | |
| 35 | 32 9398 | 9418 | 9439 | 9459 | 9479 | 9500 | 9520 | 9540 | 9561 | 9581 | |
| 36 | 9601 | 9622 | 9642 | 9662 | 9683 | 9703 | 9723 | 9744 | 9764 | 9784 | |
| 37 | 9805 | 9825 | 9845 | 9865 | 9886 | 9906 | 9926 | 9947 | 9967 | 9987 | |
| 38 | 33 0008 | 0028 | 0048 | 0069 | 0089 | 0109 | 0130 | 0150 | 0170 | 0190 | |
| 39 | 0211 | 0231 | 0251 | 0272 | 0292 | 0312 | 0333 | 0353 | 0373 | 0393 | |
| 2140 | 33 0414 | 0434 | 0454 | 0475 | 0495 | 0515 | 0536 | 0556 | 0576 | 0596 | |
| 41 | 0617 | 0637 | 0657 | 0678 | 0698 | 0718 | 0738 | 0759 | 0779 | 0799 | |
| 42 | 0819 | 0840 | 0860 | 0880 | 0901 | 0921 | 0941 | 0961 | 0982 | 1002 | |
| 43 | 1022 | 1042 | 1063 | 1083 | 1103 | 1123 | 1144 | 1164 | 1184 | 1205 | |
| 44 | 1225 | 1245 | 1265 | 1286 | 1306 | 1326 | 1346 | 1367 | 1387 | 1407 | |
| 45 | 33 1427 | 1448 | 1468 | 1488 | 1508 | 1529 | 1549 | 1569 | 1589 | 1609 | |
| 46 | 1630 | 1650 | 1670 | 1690 | 1711 | 1731 | 1751 | 1771 | 1792 | 1812 | |
| 47 | 1832 | 1852 | 1872 | 1893 | 1913 | 1933 | 1953 | 1974 | 1994 | 2014 | |
| 48 | 2034 | 2054 | 2075 | 2095 | 2115 | 2135 | 2156 | 2176 | 2196 | 2216 | |
| 49 | 2236 | 2257 | 2277 | 2297 | 2317 | 2337 | 2358 | 2378 | 2398 | 2418 | |
| 2150 | 33 2438 | 2459 | 2479 | 2499 | 2519 | 2539 | 2560 | 2580 | 2600 | 2620 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 21000" | 5° 50' | 0" | | 2100" | 0° 35' | 0" | S. 4.685 | 567 | T. 590 | |
| | 21100 | 5 51 | 40 | | 2110 | 0 35 | 10 | | 567 | 590 | |
| | 21200 | 5 53 | 20 | | 2120 | 0 35 | 20 | | 567 | 590 | |
| | 21300 | 5 55 | 0 | | 2130 | 0 35 | 30 | | 567 | 590 | |
| | 21400 | 5 56 | 40 | | 2140 | 0 35 | 40 | | 567 | 590 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------------|------|------|------|-------|------------|----------|------|--------|------|--------|
| 2150 | 33 2438 | 2459 | 2479 | 2499 | 2519 | 2539 | 2560 | 2580 | 2600 | 2620 | |
| 51 | 2640 | 2661 | 2681 | 2701 | 2721 | 2741 | 2762 | 2782 | 2802 | 2822 | |
| 52 | 2842 | 2862 | 2883 | 2903 | 2923 | 2943 | 2963 | 2984 | 3004 | 3024 | |
| 53 | 3044 | 3064 | 3084 | 3105 | 3125 | 3145 | 3165 | 3185 | 3205 | 3226 | |
| 54 | 3246 | 3266 | 3286 | 3306 | 3326 | 3346 | 3367 | 3387 | 3407 | 3427 | |
| 55 | 33 3447 | 3467 | 3488 | 3508 | 3528 | 3548 | 3568 | 3588 | 3608 | 3629 | |
| 56 | 3649 | 3669 | 3689 | 3709 | 3729 | 3749 | 3770 | 3790 | 3810 | 3830 | |
| 57 | 3850 | 3870 | 3890 | 3911 | 3931 | 3951 | 3971 | 3991 | 4011 | 4031 | |
| 58 | 4051 | 4072 | 4092 | 4112 | 4132 | 4152 | 4172 | 4192 | 4212 | 4233 | |
| 59 | 4253 | 4273 | 4293 | 4313 | 4333 | 4353 | 4373 | 4393 | 4414 | 4434 | |
| 2160 | 33 4454 | 4474 | 4494 | 4514 | 4534 | 4554 | 4574 | 4594 | 4615 | 4635 | |
| 61 | 4655 | 4675 | 4695 | 4715 | 4735 | 4755 | 4775 | 4795 | 4816 | 4836 | 20 |
| 62 | 4856 | 4876 | 4896 | 4916 | 4936 | 4956 | 4976 | 4996 | 5016 | 5036 | 1 2.0 |
| 63 | 5057 | 5077 | 5097 | 5117 | 5137 | 5157 | 5177 | 5197 | 5217 | 5237 | 2 4.0 |
| 64 | 5257 | 5277 | 5297 | 5317 | 5338 | 5358 | 5378 | 5398 | 5418 | 5438 | 3 6.0 |
| 65 | 33 5458 | 5478 | 5498 | 5518 | 5538 | 5558 | 5578 | 5598 | 5618 | 5638 | 4 8.0 |
| 66 | 5658 | 5679 | 5699 | 5719 | 5739 | 5759 | 5779 | 5799 | 5819 | 5839 | 5 10.0 |
| 67 | 5859 | 5879 | 5899 | 5919 | 5939 | 5959 | 5979 | 5999 | 6019 | 6039 | 6 12.0 |
| 68 | 6059 | 6079 | 6099 | 6119 | 6139 | 6159 | 6179 | 6199 | 6220 | 6240 | 7 14.0 |
| 69 | 6260 | 6280 | 6300 | 6320 | 6340 | 6360 | 6380 | 6400 | 6420 | 6440 | 8 16.0 |
| 2170 | 33 6460 | 6480 | 6500 | 6520 | 6540 | 6560 | 6580 | 6600 | 6620 | 6640 | 9 18.0 |
| 71 | 6660 | 6680 | 6700 | 6720 | 6740 | 6760 | 6780 | 6800 | 6820 | 6840 | |
| 72 | 6860 | 6880 | 6900 | 6920 | 6940 | 6960 | 6980 | 7000 | 7020 | 7040 | |
| 73 | 7060 | 7080 | 7100 | 7120 | 7140 | 7160 | 7180 | 7200 | 7220 | 7240 | |
| 74 | 7260 | 7280 | 7299 | 7319 | 7339 | 7359 | 7379 | 7399 | 7419 | 7439 | |
| 75 | 33 7459 | 7479 | 7499 | 7519 | 7539 | 7559 | 7579 | 7599 | 7619 | 7639 | |
| 76 | 7659 | 7679 | 7699 | 7719 | 7739 | 7759 | 7779 | 7799 | 7819 | 7838 | |
| 77 | 7858 | 7878 | 7898 | 7918 | 7938 | 7958 | 7978 | 7998 | 8018 | 8038 | |
| 78 | 8058 | 8078 | 8098 | 8118 | 8138 | 8158 | 8177 | 8197 | 8217 | 8237 | |
| 79 | 8257 | 8277 | 8297 | 8317 | 8337 | 8357 | 8377 | 8397 | 8417 | 8437 | |
| 2180 | 33 8456 | 8476 | 8496 | 8516 | 8536 | 8556 | 8576 | 8596 | 8616 | 8636 | |
| 81 | 8656 | 8676 | 8695 | 8715 | 8735 | 8755 | 8775 | 8795 | 8815 | 8835 | 19 |
| 82 | 8855 | 8875 | 8895 | 8914 | 8934 | 8954 | 8974 | 8994 | 9014 | 9034 | 1 1.9 |
| 83 | 9054 | 9074 | 9094 | 9113 | 9133 | 9153 | 9173 | 9193 | 9213 | 9233 | 2 3.8 |
| 84 | 9253 | 9273 | 9292 | 9312 | 9332 | 9352 | 9372 | 9392 | 9412 | 9432 | 3 5.7 |
| 85 | 33 9451 | 9471 | 9491 | 9511 | 9531 | 9551 | 9571 | 9591 | 9610 | 9630 | 4 7.6 |
| 86 | 9650 | 9670 | 9690 | 9710 | 9730 | 9749 | 9769 | 9789 | 9809 | 9829 | 5 9.5 |
| 87 | 9849 | 9869 | 9888 | 9908 | 9928 | 9948 | 9968 | 9988 | 0008 | 0027 | 6 11.4 |
| 88 | 34 0047 | 0067 | 0087 | 0107 | 0127 | 0147 | 0166 | 0186 | 0206 | 0226 | 7 13.3 |
| 89 | 0246 | 0266 | 0285 | 0305 | 0325 | 0345 | 0365 | 0385 | 0404 | 0424 | 8 15.2 |
| 2190 | 34 0444 | 0464 | 0484 | 0504 | 0523 | 0543 | 0563 | 0583 | 0603 | 0623 | 9 17.1 |
| 91 | 0642 | 0662 | 0682 | 0702 | 0722 | 0741 | 0761 | 0781 | 0801 | 0821 | |
| 92 | 0841 | 0860 | 0880 | 0900 | 0920 | 0940 | 0959 | 0979 | 0999 | 1019 | |
| 93 | 1039 | 1058 | 1078 | 1098 | 1118 | 1138 | 1157 | 1177 | 1197 | 1217 | |
| 94 | 1237 | 1256 | 1276 | 1296 | 1316 | 1336 | 1355 | 1375 | 1395 | 1415 | |
| 95 | 34 1435 | 1454 | 1474 | 1494 | 1514 | 1533 | 1553 | 1573 | 1593 | 1613 | |
| 96 | 1632 | 1652 | 1672 | 1692 | 1711 | 1731 | 1751 | 1771 | 1791 | 1810 | |
| 97 | 1830 | 1850 | 1870 | 1889 | 1909 | 1929 | 1949 | 1968 | 1988 | 2008 | |
| 98 | 2028 | 2047 | 2067 | 2087 | 2107 | 2126 | 2146 | 2166 | 2186 | 2205 | |
| 99 | 2225 | 2245 | 2265 | 2284 | 2304 | 2324 | 2344 | 2363 | 2383 | 2403 | |
| 2200 | 34 2423 | 2442 | 2462 | 2482 | 2502 | 2521 | 2541 | 2561 | 2581 | 2600 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 2150" | 5° 58' 20" | | | | 2150° | 0° 35' 50" | S. 4.685 | 567 | T. 591 | | |
| 21600 | 6 0 0 | | | | 2160 | 0 36 0 | | 567 | 591 | | |
| 21700 | 6 1 40 | | | | 2170 | 0 36 10 | | 567 | 591 | | |
| 21800 | 6 3 20 | | | | 2180 | 0 36 20 | | 567 | 591 | | |
| 21900 | 6 5 0 | | | | 2190 | 0 36 30 | | 567 | 591 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|-------|------------|----------|-------|--------|--------|
| 2200 | 34 2423 | 2442 | 2462 | 2482 | 2502 | 2521 | 2541 | 2561 | 2581 | 2600 | |
| 01 | 2620 | 2640 | 2660 | 2679 | 2699 | 2719 | 2738 | 2758 | 2778 | 2798 | |
| 02 | 2817 | 2837 | 2857 | 2876 | 2896 | 2916 | 2936 | 2955 | 2975 | 2995 | |
| 03 | 3014 | 3034 | 3054 | 3074 | 3093 | 3113 | 3133 | 3152 | 3172 | 3192 | |
| 04 | 3212 | 3231 | 3251 | 3271 | 3290 | 3310 | 3330 | 3350 | 3369 | 3389 | |
| 05 | 34 3409 | 3428 | 3448 | 3468 | 3487 | 3507 | 3527 | 3546 | 3566 | 3586 | |
| 06 | 3606 | 3625 | 3645 | 3665 | 3684 | 3704 | 3724 | 3743 | 3763 | 3783 | |
| 07 | 3802 | 3822 | 3842 | 3861 | 3881 | 3901 | 3920 | 3940 | 3960 | 3979 | |
| 08 | 3999 | 4019 | 4038 | 4058 | 4078 | 4097 | 4117 | 4137 | 4156 | 4176 | |
| 09 | 4196 | 4215 | 4235 | 4255 | 4274 | 4294 | 4314 | 4333 | 4353 | 4373 | |
| 2210 | 44 4491 | 4510 | 4530 | 4550 | 4570 | 4590 | 4610 | 4630 | 4650 | 4670 | |
| 11 | 4589 | 4608 | 4628 | 4648 | 4667 | 4687 | 4707 | 4726 | 4746 | 4765 | 20 |
| 12 | 4785 | 4805 | 4824 | 4844 | 4864 | 4883 | 4903 | 4923 | 4942 | 4962 | 1 2.0 |
| 13 | 4981 | 5001 | 5021 | 5040 | 5060 | 5080 | 5099 | 5119 | 5138 | 5158 | 2 4.0 |
| 14 | 5178 | 5197 | 5217 | 5236 | 5256 | 5276 | 5295 | 5315 | 5335 | 5354 | 3 6.0 |
| 15 | 34 5374 | 5393 | 5413 | 5433 | 5452 | 5472 | 5491 | 5511 | 5531 | 5550 | 4 8.0 |
| 16 | 5570 | 5589 | 5609 | 5629 | 5648 | 5668 | 5687 | 5707 | 5727 | 5746 | 5 10.0 |
| 17 | 5766 | 5785 | 5805 | 5824 | 5844 | 5864 | 5883 | 5903 | 5922 | 5942 | 6 12.0 |
| 18 | 5962 | 5981 | 6001 | 6020 | 6040 | 6059 | 6079 | 6099 | 6118 | 6138 | 7 14.0 |
| 19 | 6157 | 6177 | 6196 | 6216 | 6236 | 6255 | 6275 | 6294 | 6314 | 6333 | 8 16.0 |
| 2220 | 34 6353 | 6373 | 6392 | 6412 | 6431 | 6451 | 6470 | 6490 | 6509 | 6529 | 9 18.0 |
| 21 | 6549 | 6568 | 6588 | 6607 | 6627 | 6646 | 6666 | 6685 | 6705 | 6725 | |
| 22 | 6744 | 6764 | 6783 | 6803 | 6822 | 6842 | 6861 | 6881 | 6900 | 6920 | |
| 23 | 6939 | 6959 | 6979 | 6998 | 7018 | 7037 | 7057 | 7076 | 7096 | 7115 | |
| 24 | 7135 | 7154 | 7174 | 7193 | 7213 | 7232 | 7252 | 7271 | 7291 | 7310 | |
| 25 | 34 7330 | 7350 | 7369 | 7389 | 7408 | 7428 | 7447 | 7467 | 7486 | 7506 | |
| 26 | 7525 | 7545 | 7564 | 7584 | 7603 | 7623 | 7642 | 7662 | 7681 | 7701 | |
| 27 | 7720 | 7740 | 7759 | 7779 | 7798 | 7818 | 7837 | 7857 | 7876 | 7896 | |
| 28 | 7915 | 7935 | 7954 | 7974 | 7993 | 8013 | 8032 | 8052 | 8071 | 8091 | |
| 29 | 8110 | 8130 | 8149 | 8169 | 8188 | 8207 | 8227 | 8246 | 8266 | 8285 | |
| 2230 | 34 8305 | 8324 | 8344 | 8363 | 8383 | 8402 | 8422 | 8441 | 8461 | 8480 | |
| 31 | 8500 | 8519 | 8539 | 8558 | 8577 | 8597 | 8616 | 8636 | 8655 | 8675 | 19 |
| 32 | 8694 | 8714 | 8733 | 8753 | 8772 | 8791 | 8811 | 8830 | 8850 | 8869 | 1 1.9 |
| 33 | 8889 | 8908 | 8928 | 8947 | 8967 | 8986 | 9005 | 9025 | 9044 | 9064 | 2 3.8 |
| 34 | 9083 | 9103 | 9122 | 9141 | 9161 | 9180 | 9200 | 9219 | 9239 | 9258 | 3 5.7 |
| 35 | 34 9278 | 9297 | 9316 | 9336 | 9355 | 9375 | 9394 | 9414 | 9433 | 9452 | 4 7.6 |
| 36 | 9472 | 9491 | 9511 | 9530 | 9549 | 9569 | 9588 | 9608 | 9627 | 9647 | 5 9.5 |
| 37 | 9666 | 9685 | 9705 | 9724 | 9744 | 9763 | 9782 | 9802 | 9821 | 9841 | 6 11.4 |
| 38 | 9860 | 9879 | 9899 | 9918 | 9938 | 9957 | 9976 | 9996 | 10015 | 10035 | 7 13.3 |
| 39 | 35 0054 | 0073 | 0093 | 0112 | 0132 | 0151 | 0170 | 0190 | 0209 | 0229 | 8 15.2 |
| 2240 | 35 0248 | 0267 | 0287 | 0306 | 0326 | 0345 | 0364 | 0384 | 0403 | 0422 | 9 17.1 |
| 41 | 0442 | 0461 | 0481 | 0500 | 0519 | 0539 | 0558 | 0577 | 0597 | 0616 | |
| 42 | 0636 | 0655 | 0674 | 0694 | 0713 | 0732 | 0752 | 0771 | 0791 | 0810 | |
| 43 | 0829 | 0849 | 0868 | 0887 | 0907 | 0926 | 0945 | 0965 | 0984 | 1003 | |
| 44 | 1023 | 1042 | 1062 | 1081 | 1100 | 1120 | 1139 | 1158 | 1178 | 1197 | |
| 45 | 35 1216 | 1236 | 1255 | 1274 | 1294 | 1313 | 1332 | 1352 | 1371 | 1390 | |
| 46 | 1410 | 1429 | 1448 | 1468 | 1487 | 1506 | 1526 | 1545 | 1564 | 1584 | |
| 47 | 1603 | 1622 | 1642 | 1661 | 1680 | 1700 | 1719 | 1738 | 1758 | 1777 | |
| 48 | 1796 | 1816 | 1835 | 1854 | 1874 | 1893 | 1912 | 1932 | 1951 | 1970 | |
| 49 | 1989 | 2009 | 2028 | 2047 | 2067 | 2086 | 2105 | 2125 | 2144 | 2163 | |
| 2250 | 35 2183 | 2202 | 2221 | 2240 | 2260 | 2279 | 2298 | 2318 | 2337 | 2356 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 2200" | 6° 6' 40" | | | | | 2200" | 0° 36' 40" | S. 4,685 | 567 | T. 591 | |
| 22100 | 6 8 20 | | | | | 22100 | 0 36 50 | | 567 | 591 | |
| 22200 | 6 10 0 | | | | | 22200 | 0 37 0 | | 566 | 592 | |
| 22300 | 6 11 40 | | | | | 22300 | 0 37 10 | | 566 | 592 | |
| 22400 | 6 13 20 | | | | | 22400 | 0 37 20 | | 566 | 592 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------|------|------|------|------|--------|--------|------|----------|-------|--------|
| 2250 | 35 2183 | 2202 | 2221 | 2240 | 2260 | 2279 | 2298 | 2318 | 2337 | 2356 | |
| 51 | 2375 | 2395 | 2414 | 2433 | 2453 | 2472 | 2491 | 2511 | 2530 | 2549 | |
| 52 | 2568 | 2588 | 2607 | 2626 | 2646 | 2665 | 2684 | 2703 | 2723 | 2742 | |
| 53 | 2761 | 2780 | 2800 | 2819 | 2838 | 2858 | 2877 | 2896 | 2915 | 2935 | |
| 54 | 2954 | 2973 | 2992 | 3012 | 3031 | 3050 | 3070 | 3089 | 3108 | 3127 | |
| 55 | 3147 | 3166 | 3185 | 3204 | 3224 | 3243 | 3262 | 3281 | 3301 | 3320 | |
| 56 | 3339 | 3358 | 3378 | 3397 | 3416 | 3435 | 3455 | 3474 | 3493 | 3512 | |
| 57 | 3532 | 3551 | 3570 | 3589 | 3609 | 3628 | 3647 | 3666 | 3685 | 3705 | |
| 58 | 3724 | 3743 | 3762 | 3782 | 3801 | 3820 | 3839 | 3859 | 3878 | 3897 | |
| 59 | 3916 | 3935 | 3955 | 3974 | 3993 | 4012 | 4032 | 4051 | 4070 | 4089 | |
| 2260 | 35 4108 | 4128 | 4147 | 4166 | 4185 | 4205 | 4224 | 4243 | 4262 | 4281 | |
| 61 | 4301 | 4320 | 4339 | 4358 | 4377 | 4397 | 4416 | 4435 | 4454 | 4473 | 19 |
| 62 | 4493 | 4512 | 4531 | 4550 | 4569 | 4589 | 4608 | 4627 | 4646 | 4665 | 1 1.9 |
| 63 | 4685 | 4704 | 4723 | 4742 | 4761 | 4780 | 4800 | 4819 | 4838 | 4857 | 2 3.8 |
| 64 | 4876 | 4896 | 4915 | 4934 | 4953 | 4972 | 4992 | 5011 | 5030 | 5049 | 3 5.7 |
| 65 | 5068 | 5087 | 5107 | 5126 | 5145 | 5164 | 5183 | 5202 | 5221 | 5241 | 4 7.6 |
| 66 | 5260 | 5279 | 5298 | 5317 | 5337 | 5356 | 5375 | 5394 | 5413 | 5432 | 5 9.5 |
| 67 | 5452 | 5471 | 5490 | 5509 | 5528 | 5547 | 5566 | 5586 | 5605 | 5624 | 6 11.4 |
| 68 | 5643 | 5662 | 5681 | 5700 | 5720 | 5739 | 5758 | 5777 | 5796 | 5815 | 7 13.3 |
| 69 | 5834 | 5854 | 5873 | 5892 | 5911 | 5930 | 5949 | 5968 | 5988 | 6007 | 8 15.2 |
| 2270 | 35 6026 | 6045 | 6064 | 6083 | 6102 | 6122 | 6141 | 6160 | 6179 | 6198 | 9 17.1 |
| 71 | 6217 | 6236 | 6255 | 6275 | 6294 | 6313 | 6332 | 6351 | 6370 | 6389 | |
| 72 | 6408 | 6427 | 6447 | 6466 | 6485 | 6504 | 6523 | 6542 | 6561 | 6580 | |
| 73 | 6599 | 6619 | 6638 | 6657 | 6676 | 6695 | 6714 | 6733 | 6752 | 6771 | |
| 74 | 6790 | 6810 | 6829 | 6848 | 6867 | 6886 | 6905 | 6924 | 6943 | 6962 | |
| 75 | 6981 | 7000 | 7020 | 7039 | 7058 | 7077 | 7096 | 7115 | 7134 | 7153 | |
| 76 | 7172 | 7191 | 7210 | 7229 | 7249 | 7268 | 7287 | 7306 | 7325 | 7344 | |
| 77 | 7363 | 7382 | 7401 | 7420 | 7439 | 7458 | 7477 | 7497 | 7516 | 7535 | |
| 78 | 7554 | 7573 | 7592 | 7611 | 7630 | 7649 | 7668 | 7687 | 7706 | 7725 | |
| 79 | 7744 | 7763 | 7782 | 7801 | 7821 | 7840 | 7859 | 7878 | 7897 | 7916 | |
| 2280 | 35 7935 | 7954 | 7973 | 7992 | 8011 | 8030 | 8049 | 8068 | 8087 | 8106 | |
| 81 | 8125 | 8144 | 8163 | 8182 | 8201 | 8220 | 8240 | 8259 | 8278 | 8297 | 18 |
| 82 | 8316 | 8335 | 8354 | 8373 | 8392 | 8411 | 8430 | 8449 | 8468 | 8487 | 1 1.8 |
| 83 | 8506 | 8525 | 8544 | 8563 | 8582 | 8601 | 8620 | 8639 | 8658 | 8677 | 2 3.6 |
| 84 | 8696 | 8715 | 8734 | 8753 | 8772 | 8791 | 8810 | 8829 | 8848 | 8867 | 3 5.4 |
| 85 | 8886 | 8905 | 8924 | 8943 | 8962 | 8981 | 9000 | 9019 | 9038 | 9057 | 4 7.2 |
| 86 | 9076 | 9095 | 9114 | 9133 | 9152 | 9171 | 9190 | 9209 | 9228 | 9247 | 5 9.0 |
| 87 | 9266 | 9285 | 9304 | 9323 | 9342 | 9361 | 9380 | 9399 | 9418 | 9437 | 6 10.8 |
| 88 | 9456 | 9475 | 9494 | 9513 | 9532 | 9551 | 9570 | 9589 | 9608 | 9627 | 7 12.6 |
| 89 | 9646 | 9665 | 9684 | 9703 | 9722 | 9741 | 9760 | 9779 | 9798 | 9817 | 8 14.4 |
| 2290 | 35 9835 | 9854 | 9873 | 9892 | 9911 | 9930 | 9949 | 9968 | 9987 | 10006 | 9 16.2 |
| 91 | 36 0025 | 0044 | 0063 | 0082 | 0101 | 0120 | 0139 | 0158 | 0177 | 0196 | |
| 92 | 0215 | 0234 | 0253 | 0271 | 0290 | 0309 | 0328 | 0347 | 0366 | 0385 | |
| 93 | 0404 | 0423 | 0442 | 0461 | 0480 | 0499 | 0518 | 0537 | 0556 | 0574 | |
| 94 | 0593 | 0612 | 0631 | 0650 | 0669 | 0688 | 0707 | 0726 | 0745 | 0764 | |
| 95 | 0783 | 0802 | 0821 | 0839 | 0858 | 0877 | 0896 | 0915 | 0934 | 0953 | |
| 96 | 0972 | 0991 | 1010 | 1029 | 1048 | 1066 | 1085 | 1104 | 1123 | 1142 | |
| 97 | 1161 | 1180 | 1199 | 1218 | 1237 | 1256 | 1274 | 1293 | 1312 | 1331 | |
| 98 | 1350 | 1369 | 1388 | 1407 | 1426 | 1445 | 1463 | 1482 | 1501 | 1520 | |
| 99 | 1539 | 1558 | 1577 | 1596 | 1615 | 1633 | 1652 | 1671 | 1690 | 1709 | |
| 2300 | 36 1728 | 1747 | 1766 | 1784 | 1803 | 1822 | 1841 | 1860 | 1879 | 1898 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 22500" | 6° 15' | 0" | | | | 22500" | 0° 37' | 30" | S. 4.685 | 566 | T. 592 |
| 22600 | 6 16 | 40 | | | | 2260 | 0 37 | 40 | | 566 | 592 |
| 22700 | 6 18 | 20 | | | | 2270 | 0 37 | 50 | | 566 | 592 |
| 22800 | 6 20 | 0 | | | | 2280 | 0 38 | 0 | | 566 | 593 |
| 22900 | 6 21 | 40 | | | | 2290 | 0 38 | 10 | | 566 | 593 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|-------|-------|--------------|-------|-------|-------|----------|------------|
| 2300 | 36 1728 | 1747 | 1766 | 1784 | 1803 | 1822 | 1841 | 1860 | 1879 | 1898 | |
| 01 | 1917 | 1935 | 1954 | 1973 | 1992 | 2011 | 2030 | 2049 | 2068 | 2086 | |
| 02 | 2105 | 2124 | 2143 | 2162 | 2181 | 2200 | 2219 | 2237 | 2256 | 2275 | |
| 03 | 2294 | 2313 | 2332 | 2351 | 2369 | 2388 | 2407 | 2426 | 2445 | 2464 | |
| 04 | 2482 | 2501 | 2520 | 2539 | 2558 | 2577 | 2596 | 2614 | 2633 | 2652 | |
| 05 | 36 2671 | 2690 | 2709 | 2727 | 2746 | 2765 | 2784 | 2803 | 2822 | 2840 | |
| 06 | 2859 | 2878 | 2897 | 2916 | 2935 | 2953 | 2972 | 2991 | 3010 | 3029 | |
| 07 | 3048 | 3066 | 3085 | 3104 | 3123 | 3142 | 3161 | 3179 | 3198 | 3217 | |
| 08 | 3236 | 3255 | 3273 | 3292 | 3311 | 3330 | 3349 | 3368 | 3386 | 3405 | |
| 09 | 3424 | 3443 | 3462 | 3480 | 3499 | 3518 | 3537 | 3556 | 3574 | 3593 | |
| 2310 | 36 3612 | 3631 | 3650 | 3668 | 3687 | 3706 | 3725 | 3744 | 3762 | 3781 | |
| 11 | 3800 | 3819 | 3838 | 3856 | 3875 | 3894 | 3913 | 3931 | 3950 | 3969 | 19 |
| 12 | 3988 | 4007 | 4025 | 4044 | 4063 | 4082 | 4101 | 4119 | 4138 | 4157 | 1 1.0 |
| 13 | 4176 | 4194 | 4213 | 4232 | 4251 | 4270 | 4288 | 4307 | 4326 | 4345 | 2 3.8 |
| 14 | 4363 | 4382 | 4401 | 4420 | 4438 | 4457 | 4476 | 4495 | 4513 | 4532 | 3 5.7 |
| 15 | 36 4551 | 4570 | 4589 | 4607 | 4626 | 4645 | 4664 | 4682 | 4701 | 4720 | 4 7.6 |
| 16 | 4739 | 4757 | 4776 | 4795 | 4814 | 4832 | 4851 | 4870 | 4889 | 4907 | 5 9.5 |
| 17 | 4926 | 4945 | 4964 | 4982 | 5001 | 5020 | 5038 | 5057 | 5076 | 5095 | 6 11.4 |
| 18 | 5113 | 5132 | 5151 | 5170 | 5188 | 5207 | 5226 | 5245 | 5263 | 5282 | 7 13.3 |
| 19 | 5301 | 5319 | 5338 | 5357 | 5376 | 5394 | 5413 | 5432 | 5451 | 5469 | 8 15.2 |
| 2320 | 36 5488 | 5507 | 5525 | 5544 | 5563 | 5582 | 5600 | 5619 | 5638 | 5656 | 9 17.1 |
| 21 | 5675 | 5694 | 5713 | 5731 | 5750 | 5769 | 5787 | 5806 | 5825 | 5844 | |
| 22 | 5862 | 5881 | 5900 | 5918 | 5937 | 5956 | 5974 | 5993 | 6012 | 6031 | |
| 23 | 6049 | 6068 | 6087 | 6105 | 6124 | 6143 | 6161 | 6180 | 6199 | 6217 | |
| 24 | 6236 | 6255 | 6273 | 6292 | 6311 | 6330 | 6348 | 6367 | 6386 | 6404 | |
| 25 | 36 6423 | 6442 | 6460 | 6479 | 6498 | 6516 | 6535 | 6554 | 6572 | 6591 | |
| 26 | 6610 | 6628 | 6647 | 6666 | 6684 | 6703 | 6722 | 6740 | 6759 | 6778 | |
| 27 | 6796 | 6815 | 6834 | 6852 | 6871 | 6890 | 6908 | 6927 | 6946 | 6964 | |
| 28 | 6983 | 7002 | 7020 | 7039 | 7058 | 7076 | 7095 | 7114 | 7132 | 7151 | |
| 29 | 7169 | 7188 | 7207 | 7225 | 7244 | 7263 | 7281 | 7300 | 7319 | 7337 | |
| 2330 | 36 7356 | 7375 | 7393 | 7412 | 7430 | 7449 | 7468 | 7486 | 7505 | 7524 | |
| 31 | 7542 | 7561 | 7580 | 7598 | 7617 | 7635 | 7654 | 7673 | 7691 | 7710 | 18 |
| 32 | 7729 | 7747 | 7766 | 7784 | 7803 | 7822 | 7840 | 7859 | 7878 | 7896 | 1 1.8 |
| 33 | 7915 | 7933 | 7952 | 7971 | 7989 | 8008 | 8026 | 8045 | 8064 | 8082 | 2 3.6 |
| 34 | 8101 | 8119 | 8138 | 8157 | 8175 | 8194 | 8212 | 8231 | 8250 | 8268 | 3 5.4 |
| 35 | 36 8287 | 8305 | 8324 | 8343 | 8361 | 8380 | 8398 | 8417 | 8436 | 8454 | 4 7.2 |
| 36 | 8473 | 8491 | 8510 | 8529 | 8547 | 8566 | 8584 | 8603 | 8622 | 8640 | 5 9.0 |
| 37 | 8659 | 8677 | 8696 | 8714 | 8733 | 8752 | 8770 | 8789 | 8807 | 8826 | 6 10.8 |
| 38 | 8845 | 8863 | 8882 | 8900 | 8919 | 8937 | 8956 | 8975 | 8993 | 9012 | 7 12.6 |
| 39 | 9030 | 9049 | 9067 | 9086 | 9104 | 9123 | 9142 | 9160 | 9179 | 9197 | 8 14.4 |
| 2340 | 36 9216 | 9234 | 9253 | 9272 | 9290 | 9309 | 9327 | 9346 | 9364 | 9383 | 9 16.2 |
| 41 | 9401 | 9420 | 9439 | 9457 | 9476 | 9494 | 9513 | 9531 | 9550 | 9568 | |
| 42 | 9587 | 9605 | 9624 | 9643 | 9661 | 9680 | 9698 | 9717 | 9735 | 9754 | |
| 43 | 9772 | 9791 | 9809 | 9828 | 9846 | 9865 | 9883 | 9902 | 9921 | 9939 | |
| 44 | 9958 | 9976 | 9995 | 10013 | 10032 | 10050 | 10069 | 10087 | 10106 | 10124 | |
| 45 | 37 0143 | 0161 | 0180 | 0198 | 0217 | 0235 | 0254 | 0272 | 0291 | 0309 | |
| 46 | 0328 | 0347 | 0365 | 0384 | 0402 | 0421 | 0439 | 0458 | 0476 | 0495 | |
| 47 | 0513 | 0532 | 0550 | 0569 | 0587 | 0606 | 0624 | 0643 | 0661 | 0680 | |
| 48 | 0698 | 0717 | 0735 | 0754 | 0772 | 0791 | 0809 | 0828 | 0846 | 0865 | |
| 49 | 0883 | 0902 | 0920 | 0938 | 0957 | 0975 | 0994 | 1012 | 1031 | 1049 | |
| 2350 | 37 1068 | 1086 | 1105 | 1123 | 1142 | 1160 | 1179 | 1197 | 1216 | 1234 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 23000 | = 6° 23' 20" | | | | 23000 | = 0° 38' 20" | | | | S. 4.685 | 566 T. 593 |
| 23100 | = 6 25 0 | | | | 23100 | = 0 38 30 | | | | 566 | 593 |
| 23200 | = 6 26 40 | | | | 23200 | = 0 38 40 | | | | 566 | 593 |
| 23300 | = 6 28 20 | | | | 23300 | = 0 38 50 | | | | 566 | 593 |
| 23400 | = 6 30 0 | | | | 23400 | = 0 39 0 | | | | 566 | 593 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|---------------------|------|------|----------|------|--------|-------|--------|
| 2350 | 37 1068 | 1086 | 1105 | 1123 | 1142 | 1160 | 1179 | 1197 | 1216 | 1234 | |
| 51 | 1253 | 1271 | 1290 | 1308 | 1327 | 1345 | 1363 | 1382 | 1400 | 1419 | |
| 52 | 1437 | 1456 | 1474 | 1493 | 1511 | 1530 | 1548 | 1567 | 1585 | 1603 | |
| 53 | 1622 | 1640 | 1659 | 1677 | 1696 | 1714 | 1733 | 1751 | 1770 | 1788 | |
| 54 | 1806 | 1825 | 1843 | 1862 | 1880 | 1899 | 1917 | 1936 | 1954 | 1972 | |
| 55 | 37 1991 | 2009 | 2028 | 2046 | 2065 | 2083 | 2102 | 2120 | 2138 | 2157 | |
| 56 | 2175 | 2194 | 2212 | 2231 | 2249 | 2267 | 2286 | 2304 | 2323 | 2341 | |
| 57 | 2360 | 2378 | 2396 | 2415 | 2433 | 2452 | 2470 | 2489 | 2507 | 2525 | |
| 58 | 2544 | 2562 | 2581 | 2599 | 2617 | 2636 | 2654 | 2673 | 2691 | 2710 | |
| 59 | 2728 | 2746 | 2765 | 2783 | 2802 | 2820 | 2838 | 2857 | 2875 | 2894 | |
| 2360 | 37 2912 | 2930 | 2949 | 2967 | 2986 | 3004 | 3022 | 3041 | 3059 | 3078 | |
| 61 | 3096 | 3114 | 3133 | 3151 | 3170 | 3188 | 3206 | 3225 | 3243 | 3262 | 19 |
| 62 | 3280 | 3298 | 3317 | 3335 | 3353 | 3372 | 3390 | 3409 | 3427 | 3445 | 1 1.9 |
| 63 | 3464 | 3482 | 3500 | 3519 | 3537 | 3556 | 3574 | 3592 | 3611 | 3629 | 2 3.8 |
| 64 | 3647 | 3666 | 3684 | 3703 | 3721 | 3739 | 3758 | 3776 | 3794 | 3813 | 3 5.7 |
| 65 | 37 3831 | 3850 | 3868 | 3886 | 3905 | 3923 | 3941 | 3960 | 3978 | 3996 | 4 7.6 |
| 66 | 4015 | 4033 | 4051 | 4070 | 4088 | 4107 | 4125 | 4143 | 4162 | 4180 | 5 9.5 |
| 67 | 4198 | 4217 | 4235 | 4253 | 4272 | 4290 | 4308 | 4327 | 4345 | 4363 | 6 11.4 |
| 68 | 4382 | 4400 | 4418 | 4437 | 4455 | 4473 | 4492 | 4510 | 4528 | 4547 | 7 13.3 |
| 69 | 4565 | 4583 | 4602 | 4620 | 4638 | 4657 | 4675 | 4693 | 4712 | 4730 | 8 15.2 |
| 2370 | 37 4748 | 4767 | 4785 | 4803 | 4822 | 4840 | 4858 | 4877 | 4895 | 4913 | 9 17.1 |
| 71 | 4932 | 4950 | 4968 | 4987 | 5005 | 5023 | 5041 | 5060 | 5078 | 5096 | |
| 72 | 5115 | 5133 | 5151 | 5170 | 5188 | 5206 | 5225 | 5243 | 5261 | 5279 | |
| 73 | 5298 | 5316 | 5334 | 5353 | 5371 | 5389 | 5408 | 5426 | 5444 | 5462 | |
| 74 | 5481 | 5499 | 5517 | 5536 | 5554 | 5572 | 5590 | 5609 | 5627 | 5645 | |
| 75 | 37 5664 | 5682 | 5700 | 5718 | 5737 | 5755 | 5773 | 5792 | 5810 | 5828 | |
| 76 | 5846 | 5865 | 5883 | 5901 | 5920 | 5938 | 5956 | 5974 | 5993 | 6011 | |
| 77 | 6029 | 6047 | 6066 | 6084 | 6102 | 6121 | 6139 | 6157 | 6175 | 6194 | |
| 78 | 6212 | 6230 | 6248 | 6267 | 6285 | 6303 | 6321 | 6340 | 6358 | 6376 | |
| 79 | 6394 | 6413 | 6431 | 6449 | 6467 | 6486 | 6504 | 6522 | 6540 | 6559 | |
| 2380 | 37 6577 | 6595 | 6613 | 6632 | 6650 | 6668 | 6686 | 6705 | 6723 | 6741 | |
| 81 | 6759 | 6778 | 6796 | 6814 | 6832 | 6851 | 6869 | 6888 | 6906 | 6924 | 18 |
| 82 | 6942 | 6960 | 6978 | 6996 | 7015 | 7033 | 7051 | 7069 | 7088 | 7106 | 1 1.8 |
| 83 | 7124 | 7142 | 7160 | 7179 | 7197 | 7215 | 7233 | 7252 | 7270 | 7288 | 2 3.6 |
| 84 | 7306 | 7324 | 7343 | 7361 | 7379 | 7397 | 7416 | 7434 | 7452 | 7470 | 3 5.4 |
| 85 | 37 7488 | 7507 | 7525 | 7543 | 7561 | 7579 | 7598 | 7616 | 7634 | 7652 | 4 7.2 |
| 86 | 7670 | 7689 | 7707 | 7725 | 7743 | 7761 | 7780 | 7798 | 7816 | 7834 | 5 9.0 |
| 87 | 7852 | 7871 | 7889 | 7907 | 7925 | 7943 | 7962 | 7980 | 7998 | 8016 | 6 10.6 |
| 88 | 8034 | 8053 | 8071 | 8089 | 8107 | 8125 | 8143 | 8162 | 8180 | 8198 | 7 12.6 |
| 89 | 8216 | 8234 | 8253 | 8271 | 8289 | 8307 | 8325 | 8343 | 8362 | 8380 | 8 14.4 |
| 2390 | 37 8398 | 8416 | 8434 | 8452 | 8471 | 8489 | 8507 | 8525 | 8543 | 8561 | 9 16.2 |
| 91 | 8580 | 8598 | 8616 | 8634 | 8652 | 8670 | 8689 | 8707 | 8725 | 8743 | |
| 92 | 8761 | 8779 | 8797 | 8816 | 8834 | 8852 | 8870 | 8888 | 8906 | 8925 | |
| 93 | 8943 | 8961 | 8979 | 8997 | 9015 | 9033 | 9052 | 9070 | 9088 | 9106 | |
| 94 | 9124 | 9142 | 9160 | 9179 | 9197 | 9215 | 9233 | 9251 | 9269 | 9287 | |
| 95 | 37 9306 | 9324 | 9342 | 9360 | 9378 | 9396 | 9414 | 9432 | 9451 | 9469 | |
| 96 | 9487 | 9505 | 9523 | 9541 | 9559 | 9577 | 9596 | 9614 | 9632 | 9650 | |
| 97 | 9668 | 9686 | 9704 | 9722 | 9741 | 9759 | 9777 | 9795 | 9813 | 9831 | |
| 98 | 9849 | 9867 | 9885 | 9904 | 9922 | 9940 | 9958 | 9976 | 9994 | 10012 | |
| 99 | 38 0030 | 0048 | 0066 | 0085 | 0103 | 0121 | 0139 | 0157 | 0175 | 0193 | |
| 2400 | 38 0211 | 0229 | 0247 | 0266 | 0284 | 0302 | 0320 | 0338 | 0356 | 0374 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 23500" = 6° 31' 40" | | | 23500" = 0° 39' 10" | | | S. 4,685 | 565 | T. 594 | | |
| | 23600 = 6 33 20 | | | 2360 = 0 39 20 | | | | 565 | 594 | | |
| | 23700 = 6 35 0 | | | 2370 = 0 39 30 | | | | 565 | 594 | | |
| | 23800 = 6 36 40 | | | 2380 = 0 39 40 | | | | 565 | 594 | | |
| | 23900 = 6 38 20 | | | 2390 = 0 39 50 | | | | 565 | 594 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|-----------|------|------|--------|-----------|------|----------|------|--------|--------|
| 2400 | 38 0211 | 0229 | 0247 | 0266 | 0284 | 0302 | 0320 | 0338 | 0356 | 0374 | |
| 01 | 0392 | 0410 | 0428 | 0446 | 0465 | 0483 | 0501 | 0519 | 0537 | 0555 | |
| 02 | 0573 | 0591 | 0609 | 0627 | 0645 | 0663 | 0681 | 0700 | 0718 | 0736 | |
| 03 | 0754 | 0772 | 0790 | 0808 | 0826 | 0844 | 0862 | 0880 | 0898 | 0916 | |
| 04 | 0934 | 0953 | 0971 | 0989 | 1007 | 1025 | 1043 | 1061 | 1079 | 1097 | |
| 05 | 38 1115 | 1133 | 1151 | 1169 | 1187 | 1205 | 1223 | 1241 | 1260 | 1278 | |
| 06 | 1296 | 1314 | 1332 | 1350 | 1368 | 1386 | 1404 | 1422 | 1440 | 1458 | |
| 07 | 1476 | 1494 | 1512 | 1530 | 1548 | 1566 | 1584 | 1602 | 1620 | 1638 | |
| 08 | 1656 | 1675 | 1693 | 1711 | 1729 | 1747 | 1765 | 1783 | 1801 | 1819 | |
| 09 | 1837 | 1855 | 1873 | 1891 | 1909 | 1927 | 1945 | 1963 | 1981 | 1999 | |
| 2410 | 38 2017 | 2035 | 2053 | 2071 | 2089 | 2107 | 2125 | 2143 | 2161 | 2179 | |
| 11 | 2197 | 2215 | 2233 | 2251 | 2269 | 2287 | 2305 | 2323 | 2341 | 2359 | 19 |
| 12 | 2377 | 2395 | 2413 | 2431 | 2449 | 2467 | 2485 | 2503 | 2521 | 2539 | 1 1.9 |
| 13 | 2557 | 2575 | 2593 | 2611 | 2629 | 2647 | 2665 | 2683 | 2701 | 2719 | 2 3.8 |
| 14 | 2737 | 2755 | 2773 | 2791 | 2809 | 2827 | 2845 | 2863 | 2881 | 2899 | 3 5.7 |
| 15 | 38 2917 | 2935 | 2953 | 2971 | 2989 | 3007 | 3025 | 3043 | 3061 | 3079 | 4 7.6 |
| 16 | 3097 | 3115 | 3133 | 3151 | 3169 | 3187 | 3205 | 3223 | 3241 | 3259 | 5 9.5 |
| 17 | 3277 | 3295 | 3313 | 3331 | 3349 | 3366 | 3384 | 3402 | 3420 | 3438 | 6 11.4 |
| 18 | 3456 | 3474 | 3492 | 3510 | 3528 | 3546 | 3564 | 3582 | 3600 | 3618 | 7 13.3 |
| 19 | 3636 | 3654 | 3672 | 3690 | 3708 | 3726 | 3744 | 3762 | 3779 | 3797 | 8 15.2 |
| 2420 | 38 3815 | 3833 | 3851 | 3869 | 3887 | 3905 | 3923 | 3941 | 3959 | 3977 | 9 17.1 |
| 21 | 3995 | 4013 | 4031 | 4049 | 4067 | 4084 | 4102 | 4120 | 4138 | 4156 | |
| 22 | 4174 | 4192 | 4210 | 4228 | 4246 | 4264 | 4282 | 4300 | 4318 | 4335 | |
| 23 | 4353 | 4371 | 4389 | 4407 | 4425 | 4443 | 4461 | 4479 | 4497 | 4515 | |
| 24 | 4533 | 4551 | 4568 | 4586 | 4604 | 4622 | 4640 | 4658 | 4676 | 4694 | |
| 25 | 38 4712 | 4730 | 4748 | 4765 | 4783 | 4801 | 4819 | 4837 | 4855 | 4873 | |
| 26 | 4891 | 4909 | 4927 | 4944 | 4962 | 4980 | 4998 | 5016 | 5034 | 5052 | |
| 27 | 5070 | 5088 | 5106 | 5123 | 5141 | 5159 | 5177 | 5195 | 5213 | 5231 | |
| 28 | 5249 | 5267 | 5284 | 5302 | 5320 | 5338 | 5356 | 5374 | 5392 | 5410 | |
| 29 | 5428 | 5445 | 5463 | 5481 | 5499 | 5517 | 5535 | 5553 | 5571 | 5588 | |
| 2430 | 38 5606 | 5624 | 5642 | 5660 | 5678 | 5696 | 5713 | 5731 | 5749 | 5767 | |
| 31 | 5785 | 5803 | 5821 | 5839 | 5856 | 5874 | 5892 | 5910 | 5928 | 5946 | 18 |
| 32 | 5964 | 5981 | 5999 | 6017 | 6035 | 6053 | 6071 | 6089 | 6106 | 6124 | 1 1.8 |
| 33 | 6142 | 6160 | 6178 | 6196 | 6214 | 6231 | 6249 | 6267 | 6285 | 6303 | 2 3.6 |
| 34 | 6321 | 6338 | 6356 | 6374 | 6392 | 6410 | 6428 | 6446 | 6464 | 6481 | 3 5.4 |
| 35 | 38 6499 | 6517 | 6535 | 6552 | 6570 | 6588 | 6606 | 6624 | 6642 | 6659 | 4 7.2 |
| 36 | 6677 | 6695 | 6713 | 6731 | 6749 | 6766 | 6784 | 6802 | 6820 | 6838 | 5 9.0 |
| 37 | 6856 | 6873 | 6891 | 6909 | 6927 | 6945 | 6962 | 6980 | 6998 | 7016 | 6 10.8 |
| 38 | 7034 | 7052 | 7069 | 7087 | 7105 | 7123 | 7141 | 7158 | 7176 | 7194 | 7 12.6 |
| 39 | 7212 | 7230 | 7247 | 7265 | 7283 | 7301 | 7319 | 7336 | 7354 | 7372 | 8 14.4 |
| 2440 | 38 7390 | 7408 | 7425 | 7443 | 7461 | 7479 | 7497 | 7514 | 7532 | 7550 | 9 16.2 |
| 41 | 7568 | 7586 | 7603 | 7621 | 7639 | 7657 | 7675 | 7692 | 7710 | 7728 | |
| 42 | 7746 | 7763 | 7781 | 7799 | 7817 | 7835 | 7852 | 7870 | 7888 | 7906 | |
| 43 | 7923 | 7941 | 7959 | 7977 | 7995 | 8012 | 8030 | 8048 | 8066 | 8083 | |
| 44 | 8101 | 8119 | 8137 | 8155 | 8172 | 8190 | 8208 | 8226 | 8243 | 8261 | |
| 45 | 38 8279 | 8297 | 8314 | 8332 | 8350 | 8368 | 8385 | 8403 | 8421 | 8439 | |
| 46 | 8456 | 8474 | 8492 | 8510 | 8527 | 8545 | 8563 | 8581 | 8598 | 8616 | |
| 47 | 8634 | 8652 | 8669 | 8687 | 8705 | 8723 | 8740 | 8758 | 8776 | 8794 | |
| 48 | 8811 | 8829 | 8847 | 8865 | 8882 | 8900 | 8918 | 8936 | 8953 | 8971 | |
| 49 | 8989 | 9007 | 9024 | 9042 | 9060 | 9077 | 9095 | 9113 | 9131 | 9148 | |
| 2450 | 38 9166 | 9184 | 9202 | 9219 | 9237 | 9255 | 9272 | 9290 | 9308 | 9326 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 24000" | 6° 40' 0" | | | 24000" | 0° 40' 0" | | S. 4.685 | 565 | T. 594 | |
| | 24100 | 6 41 40 | | | 24100 | 0 40 10 | | | 565 | 595 | |
| | 24200 | 6 43 20 | | | 24200 | 0 40 20 | | | 565 | 595 | |
| | 24300 | 6 45 0 | | | 24300 | 0 40 30 | | | 565 | 595 | |
| | 24400 | 6 46 40 | | | 24400 | 0 40 40 | | | 565 | 595 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|--------------------|------|------|------|---------------------|-------|------|
| 2450 | 38 9166 | 9184 | 9202 | 9219 | 9237 | 9255 | 9272 | 9290 | 9308 | 9326 | |
| 51 | 9343 | 9361 | 9379 | 9396 | 9414 | 9432 | 9450 | 9467 | 9485 | 9503 | |
| 52 | 9520 | 9538 | 9556 | 9574 | 9591 | 9609 | 9627 | 9644 | 9662 | 9680 | |
| 53 | 9698 | 9715 | 9733 | 9751 | 9768 | 9786 | 9804 | 9821 | 9839 | 9857 | |
| 54 | 9875 | 9892 | 9910 | 9928 | 9945 | 9963 | 9981 | 9998 | 10016 | 10034 | |
| 55 | 39 0051 | 0069 | 0087 | 0105 | 0122 | 0140 | 0158 | 0175 | 0193 | 0211 | |
| 56 | 0228 | 0246 | 0264 | 0281 | 0299 | 0317 | 0334 | 0352 | 0370 | 0387 | |
| 57 | 0405 | 0423 | 0441 | 0458 | 0476 | 0494 | 0511 | 0529 | 0547 | 0564 | |
| 58 | 0582 | 0600 | 0617 | 0635 | 0653 | 0670 | 0688 | 0706 | 0723 | 0741 | |
| 59 | 0759 | 0776 | 0794 | 0812 | 0829 | 0847 | 0864 | 0882 | 0900 | 0917 | |
| 2460 | 39 0935 | 0953 | 0970 | 0988 | 1006 | 1023 | 1041 | 1059 | 1076 | 1094 | |
| 61 | 1112 | 1129 | 1147 | 1165 | 1182 | 1200 | 1217 | 1235 | 1253 | 1270 | 18 |
| 62 | 1288 | 1306 | 1323 | 1341 | 1359 | 1376 | 1394 | 1412 | 1429 | 1447 | 1 |
| 63 | 1464 | 1482 | 1500 | 1517 | 1535 | 1553 | 1570 | 1588 | 1605 | 1623 | 2 |
| 64 | 1641 | 1658 | 1676 | 1694 | 1711 | 1729 | 1746 | 1764 | 1782 | 1799 | 3 |
| 65 | 39 1817 | 1835 | 1852 | 1870 | 1887 | 1905 | 1923 | 1940 | 1958 | 1975 | 4 |
| 66 | 1993 | 2011 | 2028 | 2046 | 2064 | 2081 | 2099 | 2116 | 2134 | 2152 | 7 |
| 67 | 2169 | 2187 | 2204 | 2222 | 2240 | 2257 | 2275 | 2292 | 2310 | 2328 | 5 |
| 68 | 2345 | 2363 | 2380 | 2398 | 2416 | 2433 | 2451 | 2468 | 2486 | 2503 | 6 |
| 69 | 2521 | 2539 | 2556 | 2574 | 2591 | 2609 | 2627 | 2644 | 2662 | 2679 | 10.8 |
| 2470 | 39 2697 | 2715 | 2732 | 2750 | 2767 | 2785 | 2802 | 2820 | 2838 | 2855 | 12.6 |
| 71 | 2873 | 2890 | 2908 | 2925 | 2943 | 2961 | 2978 | 2996 | 3013 | 3031 | 14.4 |
| 72 | 3048 | 3066 | 3084 | 3101 | 3119 | 3136 | 3154 | 3171 | 3189 | 3207 | 16.2 |
| 73 | 3224 | 3242 | 3259 | 3277 | 3294 | 3312 | 3329 | 3347 | 3365 | 3382 | |
| 74 | 3400 | 3417 | 3435 | 3452 | 3470 | 3487 | 3505 | 3523 | 3540 | 3558 | |
| 75 | 39 3573 | 3593 | 3610 | 3628 | 3645 | 3663 | 3680 | 3698 | 3716 | 3733 | |
| 76 | 3751 | 3768 | 3786 | 3803 | 3821 | 3838 | 3856 | 3873 | 3891 | 3908 | |
| 77 | 3926 | 3944 | 3961 | 3979 | 3996 | 4014 | 4031 | 4049 | 4066 | 4084 | |
| 78 | 4101 | 4119 | 4136 | 4154 | 4171 | 4189 | 4206 | 4224 | 4241 | 4259 | |
| 79 | 4277 | 4294 | 4312 | 4329 | 4347 | 4364 | 4382 | 4399 | 4417 | 4434 | |
| 2480 | 39 4452 | 4469 | 4487 | 4504 | 4522 | 4539 | 4557 | 4574 | 4592 | 4609 | |
| 81 | 4627 | 4644 | 4662 | 4679 | 4697 | 4714 | 4732 | 4749 | 4767 | 4784 | 17 |
| 82 | 4802 | 4819 | 4837 | 4854 | 4872 | 4889 | 4907 | 4924 | 4942 | 4959 | 1 |
| 83 | 4977 | 4994 | 5012 | 5029 | 5047 | 5064 | 5082 | 5099 | 5117 | 5134 | 2 |
| 84 | 5152 | 5169 | 5187 | 5204 | 5222 | 5239 | 5256 | 5274 | 5291 | 5309 | 3 |
| 85 | 39 5326 | 5344 | 5361 | 5379 | 5396 | 5414 | 5431 | 5449 | 5466 | 5484 | 4 |
| 86 | 5501 | 5519 | 5536 | 5554 | 5571 | 5588 | 5606 | 5623 | 5641 | 5658 | 5 |
| 87 | 5676 | 5693 | 5711 | 5728 | 5746 | 5763 | 5781 | 5798 | 5815 | 5833 | 6 |
| 88 | 5850 | 5868 | 5885 | 5903 | 5920 | 5938 | 5955 | 5973 | 5990 | 6007 | 7 |
| 89 | 6025 | 6042 | 6060 | 6077 | 6095 | 6112 | 6130 | 6147 | 6164 | 6182 | 11.9 |
| 2490 | 39 6199 | 6217 | 6234 | 6252 | 6269 | 6287 | 6304 | 6321 | 6339 | 6356 | 13.6 |
| 91 | 6374 | 6391 | 6409 | 6426 | 6443 | 6461 | 6478 | 6496 | 6513 | 6531 | 15.3 |
| 92 | 6548 | 6565 | 6583 | 6600 | 6618 | 6635 | 6653 | 6670 | 6687 | 6705 | |
| 93 | 6722 | 6740 | 6757 | 6775 | 6792 | 6809 | 6827 | 6844 | 6862 | 6879 | |
| 94 | 6896 | 6914 | 6931 | 6949 | 6966 | 6984 | 7001 | 7018 | 7036 | 7053 | |
| 95 | 39 7071 | 7088 | 7105 | 7123 | 7140 | 7158 | 7175 | 7192 | 7210 | 7227 | |
| 96 | 7245 | 7262 | 7279 | 7297 | 7314 | 7332 | 7349 | 7366 | 7384 | 7401 | |
| 97 | 7419 | 7436 | 7453 | 7471 | 7488 | 7505 | 7523 | 7540 | 7558 | 7575 | |
| 98 | 7592 | 7610 | 7627 | 7645 | 7662 | 7679 | 7697 | 7714 | 7731 | 7749 | |
| 99 | 7766 | 7784 | 7801 | 7818 | 7836 | 7853 | 7871 | 7888 | 7905 | 7923 | |
| 2500 | 39 7940 | 7957 | 7975 | 7992 | 8009 | 8027 | 8044 | 8062 | 8079 | 8096 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 24500 | = 6° 48' 20" | | | | 2450' = 0° 40' 50" | | | | S. 4,685 565 T. 595 | | |
| 24600 | = 6 50 0 | | | | 2460 = 0 41 0 | | | | 565 595 | | |
| 24700 | = 6 51 40 | | | | 2470 = 0 41 10 | | | | 564 596 | | |
| 24800 | = 6 53 20 | | | | 2480 = 0 41 20 | | | | 564 596 | | |
| 24900 | = 6 55 0 | | | | 2490 = 0 41 30 | | | | 564 596 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|------------|------|------|--------|------------|------|----------|------|--------|--------|
| 2500 | 39 7940 | 7957 | 7975 | 7992 | 8009 | 8027 | 8044 | 8062 | 8079 | 8096 | |
| 01 | 8114 | 8131 | 8148 | 8166 | 8183 | 8201 | 8218 | 8235 | 8253 | 8270 | |
| 02 | 8287 | 8305 | 8322 | 8339 | 8357 | 8374 | 8391 | 8409 | 8426 | 8443 | |
| 03 | 8461 | 8478 | 8496 | 8513 | 8530 | 8548 | 8565 | 8582 | 8600 | 8617 | |
| 04 | 8634 | 8652 | 8669 | 8686 | 8704 | 8721 | 8738 | 8756 | 8773 | 8790 | |
| 05 | 39 8808 | 8825 | 8842 | 8860 | 8877 | 8894 | 8912 | 8929 | 8946 | 8964 | |
| 06 | 8981 | 8998 | 9016 | 9033 | 9050 | 9068 | 9085 | 9102 | 9120 | 9137 | |
| 07 | 9154 | 9172 | 9189 | 9206 | 9224 | 9241 | 9258 | 9276 | 9293 | 9310 | |
| 08 | 9328 | 9345 | 9362 | 9379 | 9397 | 9414 | 9431 | 9449 | 9466 | 9483 | |
| 09 | 9501 | 9518 | 9535 | 9553 | 9570 | 9587 | 9605 | 9622 | 9639 | 9656 | |
| 2510 | 39 9674 | 9691 | 9708 | 9726 | 9743 | 9760 | 9778 | 9795 | 9812 | 9829 | |
| 11 | 9847 | 9864 | 9881 | 9899 | 9916 | 9933 | 9950 | 9968 | 9985 | 10002 | 18 |
| 12 | 40 0020 | 0037 | 0054 | 0071 | 0089 | 0106 | 0123 | 0141 | 0158 | 0175 | 1 1.8 |
| 13 | 0192 | 0210 | 0227 | 0244 | 0262 | 0279 | 0296 | 0313 | 0331 | 0348 | 2 3.6 |
| 14 | 0365 | 0383 | 0400 | 0417 | 0434 | 0452 | 0469 | 0486 | 0503 | 0521 | 3 5.4 |
| 15 | 40 0538 | 0555 | 0573 | 0590 | 0607 | 0624 | 0642 | 0659 | 0676 | 0693 | 4 7.2 |
| 16 | 0711 | 0728 | 0746 | 0762 | 0780 | 0797 | 0814 | 0831 | 0849 | 0866 | 5 9.0 |
| 17 | 0883 | 0900 | 0918 | 0935 | 0952 | 0969 | 0987 | 1004 | 1021 | 1038 | 6 10.8 |
| 18 | 1056 | 1073 | 1090 | 1107 | 1125 | 1142 | 1159 | 1176 | 1194 | 1211 | 7 12.6 |
| 19 | 1228 | 1245 | 1263 | 1280 | 1297 | 1314 | 1332 | 1349 | 1366 | 1383 | 8 14.4 |
| 2520 | 40 1401 | 1418 | 1435 | 1452 | 1469 | 1487 | 1504 | 1521 | 1538 | 1556 | 9 16.2 |
| 21 | 1573 | 1590 | 1607 | 1625 | 1642 | 1659 | 1676 | 1693 | 1711 | 1728 | |
| 22 | 1745 | 1762 | 1780 | 1797 | 1814 | 1831 | 1848 | 1866 | 1883 | 1900 | |
| 23 | 1917 | 1934 | 1952 | 1969 | 1986 | 2003 | 2021 | 2038 | 2055 | 2072 | |
| 24 | 2089 | 2107 | 2124 | 2141 | 2158 | 2175 | 2193 | 2210 | 2227 | 2244 | |
| 25 | 40 2261 | 2279 | 2296 | 2313 | 2330 | 2347 | 2365 | 2382 | 2399 | 2416 | |
| 26 | 2433 | 2451 | 2468 | 2485 | 2502 | 2519 | 2536 | 2554 | 2571 | 2588 | |
| 27 | 2605 | 2622 | 2640 | 2657 | 2674 | 2691 | 2708 | 2726 | 2743 | 2760 | |
| 28 | 2777 | 2794 | 2811 | 2829 | 2846 | 2863 | 2880 | 2897 | 2914 | 2932 | |
| 29 | 2949 | 2966 | 2983 | 3000 | 3018 | 3035 | 3052 | 3069 | 3086 | 3103 | |
| 2530 | 40 3121 | 3138 | 3155 | 3172 | 3189 | 3206 | 3224 | 3241 | 3258 | 3275 | |
| 31 | 3292 | 3309 | 3326 | 3344 | 3361 | 3378 | 3395 | 3412 | 3429 | 3447 | 17 |
| 32 | 3404 | 3421 | 3439 | 3455 | 3472 | 3489 | 3507 | 3524 | 3541 | 3558 | 1 1.7 |
| 33 | 3635 | 3652 | 3669 | 3687 | 3704 | 3721 | 3738 | 3755 | 3772 | 3789 | 2 3.4 |
| 34 | 3807 | 3824 | 3841 | 3858 | 3875 | 3892 | 3909 | 3927 | 3944 | 3961 | 3 5.1 |
| 35 | 40 3978 | 3995 | 4012 | 4029 | 4046 | 4063 | 4081 | 4098 | 4115 | 4132 | 4 6.8 |
| 36 | 4149 | 4166 | 4183 | 4201 | 4218 | 4235 | 4252 | 4269 | 4286 | 4303 | 5 8.5 |
| 37 | 4320 | 4338 | 4355 | 4372 | 4389 | 4406 | 4423 | 4440 | 4457 | 4475 | 6 10.2 |
| 38 | 4492 | 4509 | 4526 | 4543 | 4560 | 4577 | 4594 | 4611 | 4628 | 4646 | 7 11.9 |
| 39 | 4663 | 4680 | 4697 | 4714 | 4731 | 4748 | 4765 | 4782 | 4800 | 4817 | 8 13.6 |
| 2540 | 40 4834 | 4851 | 4868 | 4885 | 4902 | 4919 | 4936 | 4953 | 4970 | 4988 | 9 15.3 |
| 41 | 5005 | 5022 | 5039 | 5056 | 5073 | 5090 | 5107 | 5124 | 5141 | 5158 | |
| 42 | 5176 | 5193 | 5210 | 5227 | 5244 | 5261 | 5278 | 5295 | 5312 | 5329 | |
| 43 | 5346 | 5363 | 5381 | 5398 | 5415 | 5432 | 5449 | 5466 | 5483 | 5500 | |
| 44 | 5517 | 5534 | 5551 | 5568 | 5585 | 5602 | 5620 | 5637 | 5654 | 5671 | |
| 45 | 40 5688 | 5705 | 5722 | 5739 | 5756 | 5773 | 5790 | 5807 | 5824 | 5841 | |
| 46 | 5858 | 5875 | 5893 | 5910 | 5927 | 5944 | 5961 | 5978 | 5995 | 6012 | |
| 47 | 6029 | 6046 | 6063 | 6080 | 6097 | 6114 | 6131 | 6148 | 6165 | 6182 | |
| 48 | 6199 | 6216 | 6234 | 6251 | 6268 | 6285 | 6302 | 6319 | 6336 | 6353 | |
| 49 | 6370 | 6387 | 6404 | 6421 | 6438 | 6455 | 6472 | 6489 | 6506 | 6523 | |
| 2550 | 40 6540 | 6557 | 6574 | 6591 | 6608 | 6625 | 6642 | 6659 | 6676 | 6693 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 25000" | 6° 56' 40" | | | 25000" | 0° 41' 40" | | S. 4,685 | 564 | T. 596 | |
| | 25100 | 6 58 20 | | | 25100 | 0 41 50 | | | 564 | 596 | |
| | 25200 | 7 0 0 | | | 25200 | 0 42 0 | | | 564 | 596 | |
| | 25300 | 7 1 40 | | | 25300 | 0 42 10 | | | 564 | 597 | |
| | 25400 | 7 3 20 | | | 25400 | 0 42 20 | | | 564 | 597 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|----------|-------|-------|-------|-------|--------------|----------|-------|--------|-------|--------|
| 2550 | 40 6540 | 6557 | 6574 | 6591 | 6608 | 6625 | 6642 | 6659 | 6676 | 6693 | |
| 51 | 6710 | 6727 | 6745 | 6762 | 6779 | 6796 | 6813 | 6830 | 6847 | 6864 | |
| 52 | 6881 | 6898 | 6915 | 6932 | 6949 | 6966 | 6983 | 7000 | 7017 | 7034 | |
| 53 | 7051 | 7068 | 7085 | 7102 | 7119 | 7136 | 7153 | 7170 | 7187 | 7204 | |
| 54 | 7221 | 7238 | 7255 | 7272 | 7289 | 7306 | 7323 | 7340 | 7357 | 7374 | |
| 55 | 40 7391 | 7408 | 7425 | 7442 | 7459 | 7476 | 7493 | 7510 | 7527 | 7544 | |
| 56 | 7561 | 7578 | 7595 | 7612 | 7629 | 7646 | 7663 | 7680 | 7697 | 7714 | |
| 57 | 7731 | 7748 | 7765 | 7782 | 7799 | 7816 | 7833 | 7850 | 7867 | 7884 | |
| 58 | 7901 | 7918 | 7934 | 7951 | 7968 | 7985 | 8002 | 8019 | 8036 | 8053 | |
| 59 | 8070 | 8087 | 8104 | 8121 | 8138 | 8155 | 8172 | 8189 | 8206 | 8223 | |
| 2560 | 40 8240 | 8257 | 8274 | 8291 | 8308 | 8325 | 8342 | 8359 | 8376 | 8393 | |
| 61 | 8410 | 8427 | 8443 | 8460 | 8477 | 8494 | 8511 | 8528 | 8545 | 8562 | 17 |
| 62 | 8579 | 8596 | 8613 | 8630 | 8647 | 8664 | 8681 | 8698 | 8715 | 8732 | 1 1.7 |
| 63 | 8749 | 8766 | 8782 | 8799 | 8816 | 8833 | 8850 | 8867 | 8884 | 8901 | 2 3.4 |
| 64 | 8918 | 8935 | 8952 | 8969 | 8986 | 9003 | 9020 | 9037 | 9054 | 9070 | 3 5.1 |
| 65 | 40 9087 | 9104 | 9121 | 9138 | 9155 | 9172 | 9189 | 9206 | 9223 | 9240 | 4 6.8 |
| 66 | 9257 | 9274 | 9291 | 9307 | 9324 | 9341 | 9358 | 9375 | 9392 | 9409 | 5 8.5 |
| 67 | 9426 | 9443 | 9460 | 9477 | 9494 | 9510 | 9527 | 9544 | 9561 | 9578 | 6 10.2 |
| 68 | 9595 | 9612 | 9629 | 9646 | 9663 | 9680 | 9696 | 9713 | 9730 | 9747 | 7 11.9 |
| 69 | 9764 | 9781 | 9798 | 9815 | 9832 | 9849 | 9866 | 9882 | 9899 | 9916 | 8 13.6 |
| 2570 | 40 9933 | 9950 | 9967 | 9984 | 10001 | 10018 | 10035 | 10051 | 10068 | 10085 | 9 15.3 |
| 71 | 41 10102 | 10119 | 10136 | 10153 | 10170 | 10187 | 10203 | 10220 | 10237 | 10254 | |
| 72 | 10271 | 10288 | 10305 | 10322 | 10339 | 10355 | 10372 | 10389 | 10406 | 10423 | |
| 73 | 10440 | 10457 | 10474 | 10490 | 10507 | 10524 | 10541 | 10558 | 10575 | 10592 | |
| 74 | 10609 | 10625 | 10642 | 10659 | 10676 | 10693 | 10710 | 10727 | 10744 | 10760 | |
| 75 | 41 10777 | 10794 | 10811 | 10828 | 10845 | 10862 | 10878 | 10895 | 10912 | 10929 | |
| 76 | 10946 | 10963 | 10980 | 10996 | 11013 | 11030 | 11047 | 11064 | 11081 | 11098 | |
| 77 | 11114 | 11131 | 11148 | 11165 | 11182 | 11199 | 11216 | 11232 | 11249 | 11266 | |
| 78 | 11283 | 11300 | 11317 | 11333 | 11350 | 11367 | 11384 | 11401 | 11418 | 11435 | |
| 79 | 11451 | 11468 | 11485 | 11502 | 11519 | 11536 | 11552 | 11569 | 11586 | 11603 | |
| 2580 | 41 11620 | 11637 | 11653 | 11670 | 11687 | 11704 | 11721 | 11738 | 11754 | 11771 | |
| 81 | 11788 | 11805 | 11822 | 11838 | 11855 | 11872 | 11889 | 11906 | 11923 | 11939 | 16 |
| 82 | 11956 | 11973 | 11990 | 12007 | 12024 | 12040 | 12057 | 12074 | 12091 | 12108 | 1 1.6 |
| 83 | 12124 | 12141 | 12158 | 12175 | 12192 | 12208 | 12225 | 12242 | 12259 | 12276 | 2 3.2 |
| 84 | 12293 | 12309 | 12326 | 12343 | 12360 | 12377 | 12393 | 12410 | 12427 | 12444 | 3 4.8 |
| 85 | 41 12461 | 12477 | 12494 | 12511 | 12528 | 12545 | 12561 | 12578 | 12595 | 12612 | 4 6.4 |
| 86 | 12629 | 12645 | 12662 | 12679 | 12696 | 12712 | 12729 | 12746 | 12763 | 12780 | 5 8.0 |
| 87 | 12796 | 12813 | 12830 | 12847 | 12864 | 12880 | 12897 | 12914 | 12931 | 12947 | 6 9.6 |
| 88 | 12964 | 12981 | 12998 | 13015 | 13031 | 13048 | 13065 | 13082 | 13098 | 13115 | 7 11.2 |
| 89 | 13132 | 13149 | 13166 | 13182 | 13199 | 13216 | 13233 | 13249 | 13266 | 13283 | 8 12.8 |
| 2590 | 41 13300 | 13317 | 13333 | 13350 | 13367 | 13384 | 13400 | 13417 | 13434 | 13451 | 9 14.4 |
| 91 | 13467 | 13484 | 13501 | 13518 | 13534 | 13551 | 13568 | 13585 | 13601 | 13618 | |
| 92 | 13635 | 13652 | 13669 | 13685 | 13702 | 13719 | 13736 | 13752 | 13769 | 13786 | |
| 93 | 13803 | 13819 | 13836 | 13853 | 13870 | 13886 | 13903 | 13920 | 13936 | 13953 | |
| 94 | 13970 | 13987 | 14003 | 14020 | 14037 | 14054 | 14070 | 14087 | 14104 | 14121 | |
| 95 | 41 14137 | 14154 | 14171 | 14188 | 14204 | 14221 | 14238 | 14254 | 14271 | 14288 | |
| 96 | 14305 | 14321 | 14338 | 14355 | 14372 | 14388 | 14405 | 14422 | 14439 | 14455 | |
| 97 | 14472 | 14489 | 14505 | 14522 | 14539 | 14556 | 14572 | 14589 | 14606 | 14622 | |
| 98 | 14639 | 14656 | 14673 | 14689 | 14706 | 14723 | 14739 | 14756 | 14773 | 14790 | |
| 99 | 14806 | 14823 | 14840 | 14856 | 14873 | 14890 | 14907 | 14923 | 14940 | 14957 | |
| 2600 | 41 14973 | 14990 | 15007 | 15023 | 15040 | 15057 | 15074 | 15090 | 15107 | 15124 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 25500 | = 7° 0' | 0' | | | 25500 | = 0° 42' 30" | S. 4.685 | 564 | T. 597 | | |
| 25600 | = 7° 6' | 40 | | | 25600 | = 0° 42' 40" | | 564 | 597 | | |
| 25700 | = 7° 8' | 20 | | | 25700 | = 0° 42' 50" | | 564 | 597 | | |
| 25800 | = 7° 10' | 0 | | | 25800 | = 0° 43' 0" | | 564 | 597 | | |
| 25900 | = 7° 11' | 40 | | | 25900 | = 0° 43' 10" | | 563 | 598 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|---------------------|------|----------|------|--------|------|--------|
| 2600 | 41 4973 | 4990 | 5007 | 5023 | 5040 | 5057 | 5074 | 5090 | 5107 | 5124 | |
| 01 | 5140 | 5157 | 5174 | 5190 | 5207 | 5224 | 5241 | 5257 | 5274 | 5291 | |
| 02 | 5307 | 5324 | 5341 | 5357 | 5374 | 5391 | 5407 | 5424 | 5441 | 5457 | |
| 03 | 5474 | 5491 | 5508 | 5524 | 5541 | 5558 | 5574 | 5591 | 5608 | 5624 | |
| 04 | 5641 | 5658 | 5674 | 5691 | 5708 | 5724 | 5741 | 5758 | 5774 | 5791 | |
| 05 | 41 5808 | 5824 | 5841 | 5858 | 5874 | 5891 | 5908 | 5924 | 5941 | 5958 | |
| 06 | 5974 | 5991 | 6008 | 6024 | 6041 | 6058 | 6074 | 6091 | 6108 | 6124 | |
| 07 | 6141 | 6158 | 6174 | 6191 | 6208 | 6224 | 6241 | 6258 | 6274 | 6291 | |
| 08 | 6308 | 6324 | 6341 | 6358 | 6374 | 6391 | 6407 | 6424 | 6441 | 6457 | |
| 09 | 6474 | 6491 | 6507 | 6524 | 6541 | 6557 | 6574 | 6591 | 6607 | 6624 | |
| 2610 | 41 6641 | 6657 | 6674 | 6690 | 6707 | 6724 | 6740 | 6757 | 6774 | 6790 | |
| 11 | 6807 | 6824 | 6840 | 6857 | 6873 | 6890 | 6907 | 6923 | 6940 | 6957 | 17 |
| 12 | 6973 | 6990 | 7006 | 7023 | 7040 | 7056 | 7073 | 7090 | 7106 | 7123 | 1 1.7 |
| 13 | 7139 | 7156 | 7173 | 7189 | 7206 | 7223 | 7239 | 7256 | 7272 | 7289 | 2 3.4 |
| 14 | 7306 | 7322 | 7339 | 7355 | 7372 | 7389 | 7405 | 7422 | 7438 | 7455 | 3 5.1 |
| 15 | 41 7472 | 7488 | 7505 | 7522 | 7538 | 7555 | 7571 | 7588 | 7605 | 7621 | 4 6.8 |
| 16 | 7638 | 7654 | 7671 | 7688 | 7704 | 7721 | 7737 | 7754 | 7771 | 7787 | 5 8.5 |
| 17 | 7804 | 7820 | 7837 | 7854 | 7870 | 7887 | 7903 | 7920 | 7936 | 7953 | 6 10.2 |
| 18 | 7970 | 7986 | 8003 | 8019 | 8036 | 8053 | 8069 | 8086 | 8102 | 8119 | 7 11.9 |
| 19 | 8135 | 8152 | 8169 | 8185 | 8202 | 8218 | 8235 | 8252 | 8268 | 8285 | 8 13.6 |
| 2620 | 41 8301 | 8318 | 8334 | 8351 | 8368 | 8384 | 8401 | 8417 | 8434 | 8450 | 9 15.3 |
| 21 | 8467 | 8484 | 8500 | 8517 | 8533 | 8550 | 8566 | 8583 | 8600 | 8616 | |
| 22 | 8633 | 8649 | 8666 | 8682 | 8699 | 8715 | 8732 | 8749 | 8765 | 8782 | |
| 23 | 8798 | 8815 | 8831 | 8848 | 8865 | 8881 | 8898 | 8914 | 8931 | 8947 | |
| 24 | 8964 | 8980 | 8997 | 9013 | 9030 | 9047 | 9063 | 9080 | 9096 | 9113 | |
| 25 | 41 9129 | 9146 | 9162 | 9179 | 9195 | 9212 | 9229 | 9245 | 9262 | 9278 | |
| 26 | 9295 | 9311 | 9328 | 9344 | 9361 | 9377 | 9394 | 9410 | 9427 | 9444 | |
| 27 | 9460 | 9477 | 9493 | 9510 | 9526 | 9543 | 9559 | 9576 | 9592 | 9609 | |
| 28 | 9625 | 9642 | 9658 | 9675 | 9691 | 9708 | 9725 | 9741 | 9758 | 9774 | |
| 29 | 9791 | 9807 | 9824 | 9840 | 9857 | 9873 | 9890 | 9906 | 9923 | 9939 | |
| 2630 | 41 9956 | 9972 | 9989 | 0005 | 0022 | 0038 | 0055 | 0071 | 0088 | 0104 | |
| 31 | 42 0121 | 0137 | 0154 | 0170 | 0187 | 0203 | 0220 | 0236 | 0253 | 0269 | 16 |
| 32 | 0286 | 0302 | 0319 | 0335 | 0352 | 0368 | 0385 | 0401 | 0418 | 0434 | 1 1.6 |
| 33 | 0451 | 0467 | 0484 | 0500 | 0517 | 0533 | 0550 | 0566 | 0583 | 0599 | 2 3.2 |
| 34 | 0616 | 0632 | 0649 | 0665 | 0682 | 0698 | 0715 | 0731 | 0748 | 0764 | 3 4.8 |
| 35 | 42 0781 | 0797 | 0814 | 0830 | 0847 | 0863 | 0879 | 0895 | 0912 | 0929 | 4 6.4 |
| 36 | 0945 | 0962 | 0978 | 0995 | 1011 | 1028 | 1044 | 1061 | 1077 | 1094 | 5 8.0 |
| 37 | 1110 | 1127 | 1143 | 1160 | 1176 | 1192 | 1209 | 1225 | 1242 | 1258 | 6 9.6 |
| 38 | 1275 | 1291 | 1308 | 1324 | 1341 | 1357 | 1374 | 1390 | 1406 | 1423 | 7 11.2 |
| 39 | 1439 | 1456 | 1472 | 1489 | 1505 | 1522 | 1538 | 1555 | 1571 | 1587 | 8 12.8 |
| 2640 | 42 1604 | 1620 | 1637 | 1653 | 1670 | 1686 | 1703 | 1719 | 1736 | 1752 | 9 14.4 |
| 41 | 1768 | 1785 | 1801 | 1818 | 1834 | 1851 | 1867 | 1883 | 1900 | 1916 | |
| 42 | 1933 | 1949 | 1966 | 1982 | 1999 | 2015 | 2031 | 2048 | 2064 | 2081 | |
| 43 | 2097 | 2114 | 2130 | 2146 | 2163 | 2179 | 2196 | 2212 | 2229 | 2245 | |
| 44 | 2261 | 2278 | 2294 | 2311 | 2327 | 2344 | 2360 | 2376 | 2393 | 2409 | |
| 45 | 42 2426 | 2442 | 2459 | 2475 | 2491 | 2508 | 2524 | 2541 | 2557 | 2573 | |
| 46 | 2590 | 2606 | 2623 | 2639 | 2655 | 2672 | 2688 | 2705 | 2721 | 2738 | |
| 47 | 2754 | 2770 | 2787 | 2803 | 2820 | 2836 | 2852 | 2869 | 2885 | 2902 | |
| 48 | 2918 | 2934 | 2951 | 2967 | 2984 | 3000 | 3016 | 3033 | 3049 | 3066 | |
| 49 | 3082 | 3098 | 3115 | 3131 | 3148 | 3164 | 3180 | 3197 | 3213 | 3229 | |
| 2650 | 42 3246 | 3262 | 3279 | 3295 | 3311 | 3328 | 3344 | 3361 | 3377 | 3393 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 26000" = 7° 13' 20" | | | | 26000" = 0° 43' 20" | | S. 4,685 | 563 | T. 598 | | |
| | 26100 = 7 15 0 | | | | 26100 = 0 43 30 | | | 563 | 598 | | |
| | 26200 = 7 16 40 | | | | 26200 = 0 43 40 | | | 563 | 598 | | |
| | 26300 = 7 18 20 | | | | 26300 = 0 43 50 | | | 563 | 598 | | |
| | 26400 = 7 20 0 | | | | 26400 = 0 44 0 | | | 563 | 599 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|--------|------------|----------|-------|--------|-------|--------|
| 2650 | 42 3246 | 3262 | 3279 | 3295 | 3311 | 3328 | 3344 | 3361 | 3377 | 3393 | |
| 51 | 3410 | 3426 | 3442 | 3459 | 3475 | 3492 | 3508 | 3524 | 3541 | 3557 | |
| 52 | 3574 | 3590 | 3606 | 3623 | 3639 | 3655 | 3672 | 3688 | 3705 | 3721 | |
| 53 | 3737 | 3754 | 3770 | 3786 | 3803 | 3819 | 3835 | 3852 | 3868 | 3885 | |
| 54 | 3901 | 3917 | 3934 | 3950 | 3966 | 3983 | 3999 | 4015 | 4032 | 4048 | |
| 55 | 42 4065 | 4081 | 4097 | 4114 | 4130 | 4146 | 4163 | 4179 | 4195 | 4212 | |
| 56 | 4228 | 4244 | 4261 | 4277 | 4293 | 4310 | 4326 | 4343 | 4359 | 4375 | |
| 57 | 4392 | 4408 | 4424 | 4441 | 4457 | 4473 | 4490 | 4506 | 4522 | 4539 | |
| 58 | 4555 | 4571 | 4588 | 4604 | 4620 | 4637 | 4653 | 4669 | 4686 | 4702 | |
| 59 | 4718 | 4735 | 4751 | 4767 | 4784 | 4800 | 4816 | 4833 | 4849 | 4865 | |
| 2660 | 42 5045 | 5061 | 5078 | 5094 | 5110 | 5126 | 5143 | 5159 | 5175 | 5192 | 17 |
| 61 | 5208 | 5224 | 5241 | 5257 | 5273 | 5290 | 5306 | 5322 | 5339 | 5355 | 1 1.7 |
| 62 | 5371 | 5387 | 5404 | 5420 | 5436 | 5453 | 5469 | 5485 | 5502 | 5518 | 2 3.4 |
| 63 | 5534 | 5551 | 5567 | 5583 | 5599 | 5616 | 5632 | 5648 | 5665 | 5681 | 3 5.1 |
| 64 | 42 5697 | 5714 | 5730 | 5746 | 5762 | 5779 | 5795 | 5811 | 5828 | 5844 | 4 6.8 |
| 65 | 5860 | 5876 | 5893 | 5909 | 5925 | 5942 | 5958 | 5974 | 5990 | 6007 | 5 8.5 |
| 66 | 6023 | 6039 | 6056 | 6072 | 6088 | 6104 | 6121 | 6137 | 6153 | 6170 | 6 10.2 |
| 67 | 6186 | 6202 | 6218 | 6235 | 6251 | 6267 | 6283 | 6300 | 6316 | 6332 | 7 11.9 |
| 68 | 6349 | 6365 | 6381 | 6397 | 6414 | 6430 | 6446 | 6462 | 6479 | 6495 | 8 13.6 |
| 69 | 6511 | 6528 | 6544 | 6560 | 6576 | 6593 | 6609 | 6625 | 6641 | 6658 | 9 15.3 |
| 2670 | 6674 | 6690 | 6706 | 6723 | 6739 | 6755 | 6771 | 6788 | 6804 | 6820 | |
| 71 | 6836 | 6853 | 6869 | 6885 | 6901 | 6918 | 6934 | 6950 | 6966 | 6983 | |
| 72 | 6999 | 7015 | 7031 | 7048 | 7064 | 7080 | 7096 | 7113 | 7129 | 7145 | |
| 73 | 7161 | 7178 | 7194 | 7210 | 7226 | 7243 | 7259 | 7275 | 7291 | 7308 | |
| 74 | 42 7324 | 7340 | 7356 | 7372 | 7389 | 7405 | 7421 | 7437 | 7454 | 7470 | |
| 75 | 7486 | 7502 | 7519 | 7535 | 7551 | 7567 | 7583 | 7600 | 7616 | 7632 | |
| 76 | 7648 | 7665 | 7681 | 7697 | 7713 | 7729 | 7746 | 7762 | 7778 | 7794 | |
| 77 | 7811 | 7827 | 7843 | 7859 | 7875 | 7892 | 7908 | 7924 | 7940 | 7957 | |
| 78 | 7973 | 7989 | 8005 | 8021 | 8038 | 8054 | 8070 | 8086 | 8102 | 8119 | |
| 2680 | 42 8135 | 8151 | 8167 | 8183 | 8200 | 8216 | 8232 | 8248 | 8264 | 8281 | 16 |
| 81 | 8297 | 8313 | 8329 | 8345 | 8362 | 8378 | 8394 | 8410 | 8426 | 8443 | 1 1.6 |
| 82 | 8459 | 8475 | 8491 | 8507 | 8524 | 8540 | 8556 | 8572 | 8588 | 8604 | 2 3.2 |
| 83 | 8621 | 8637 | 8653 | 8669 | 8685 | 8702 | 8718 | 8734 | 8750 | 8766 | 3 4.8 |
| 84 | 8783 | 8799 | 8815 | 8831 | 8847 | 8863 | 8880 | 8896 | 8912 | 8928 | 4 6.4 |
| 85 | 42 8944 | 8960 | 8977 | 8993 | 9009 | 9025 | 9041 | 9057 | 9074 | 9090 | 5 8.0 |
| 86 | 9106 | 9122 | 9138 | 9155 | 9171 | 9187 | 9203 | 9219 | 9235 | 9252 | 6 9.6 |
| 87 | 9268 | 9284 | 9300 | 9316 | 9332 | 9348 | 9365 | 9381 | 9397 | 9413 | 7 11.2 |
| 88 | 9429 | 9445 | 9462 | 9478 | 9494 | 9510 | 9526 | 9542 | 9558 | 9575 | 8 12.8 |
| 89 | 9591 | 9607 | 9623 | 9639 | 9655 | 9672 | 9688 | 9704 | 9720 | 9736 | 9 14.4 |
| 2690 | 42 9752 | 9768 | 9785 | 9801 | 9817 | 9833 | 9849 | 9865 | 9881 | 9898 | |
| 91 | 9914 | 9930 | 9946 | 9962 | 9978 | 9994 | 10011 | 10027 | 10043 | 10059 | |
| 92 | 43 0075 | 0091 | 0107 | 0123 | 0140 | 0156 | 0172 | 0188 | 0204 | 0220 | |
| 93 | 0236 | 0252 | 0269 | 0285 | 0301 | 0317 | 0333 | 0349 | 0365 | 0381 | |
| 94 | 0398 | 0414 | 0430 | 0446 | 0462 | 0478 | 0494 | 0510 | 0527 | 0543 | |
| 95 | 43 0559 | 0575 | 0591 | 0607 | 0623 | 0639 | 0655 | 0672 | 0688 | 0704 | |
| 96 | 0720 | 0736 | 0752 | 0768 | 0784 | 0800 | 0817 | 0833 | 0849 | 0865 | |
| 97 | 0881 | 0897 | 0913 | 0929 | 0945 | 0961 | 0978 | 0994 | 1010 | 1026 | |
| 98 | 1042 | 1058 | 1074 | 1090 | 1106 | 1122 | 1139 | 1155 | 1171 | 1187 | |
| 99 | 1203 | 1219 | 1235 | 1251 | 1267 | 1283 | 1299 | 1316 | 1332 | 1348 | |
| 2700 | 43 1364 | 1380 | 1396 | 1412 | 1428 | 1444 | 1460 | 1476 | 1492 | 1509 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 26500" | 7° 21' 40" | | | | 26500" | 0° 44' 10" | S. 4.685 | 563 | T. 599 | | |
| 26600 | 7 23 20 | | | | 26600 | 0 44 20 | | 563 | 599 | | |
| 26700 | 7 25 0 | | | | 26700 | 0 44 30 | | 563 | 599 | | |
| 26800 | 7 26 40 | | | | 26800 | 0 44 40 | | 563 | 599 | | |
| 26900 | 7 28 20 | | | | 26900 | 0 44 50 | | 563 | 599 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|-------------------|------|------|----------|------|--------|-----|
| 2700 | 43 1364 | 1380 | 1396 | 1412 | 1428 | 1444 | 1460 | 1476 | 1492 | 1509 | |
| 01 | 1525 | 1541 | 1557 | 1573 | 1589 | 1605 | 1621 | 1637 | 1653 | 1669 | |
| 02 | 1685 | 1701 | 1717 | 1734 | 1750 | 1766 | 1782 | 1798 | 1814 | 1830 | |
| 03 | 1846 | 1862 | 1878 | 1894 | 1910 | 1926 | 1942 | 1959 | 1975 | 1991 | |
| 04 | 2007 | 2023 | 2039 | 2055 | 2071 | 2087 | 2103 | 2119 | 2135 | 2151 | |
| 05 | 43 2167 | 2183 | 2199 | 2215 | 2231 | 2248 | 2264 | 2280 | 2296 | 2312 | |
| 06 | 2328 | 2344 | 2360 | 2376 | 2392 | 2408 | 2424 | 2440 | 2456 | 2472 | |
| 07 | 2488 | 2504 | 2520 | 2536 | 2552 | 2568 | 2585 | 2601 | 2617 | 2633 | |
| 08 | 2649 | 2665 | 2681 | 2697 | 2713 | 2729 | 2745 | 2761 | 2777 | 2793 | |
| 09 | 2809 | 2825 | 2841 | 2857 | 2873 | 2889 | 2905 | 2921 | 2937 | 2953 | |
| 2710 | 43 2969 | 2985 | 3001 | 3017 | 3033 | 3049 | 3065 | 3081 | 3097 | 3113 | |
| 11 | 3130 | 3146 | 3162 | 3178 | 3194 | 3210 | 3226 | 3242 | 3258 | 3274 | |
| 12 | 3290 | 3306 | 3322 | 3338 | 3354 | 3370 | 3386 | 3402 | 3418 | 3434 | |
| 13 | 3450 | 3466 | 3482 | 3498 | 3514 | 3530 | 3546 | 3562 | 3578 | 3594 | |
| 14 | 3610 | 3626 | 3642 | 3658 | 3674 | 3690 | 3706 | 3722 | 3738 | 3754 | |
| 15 | 43 3770 | 3786 | 3802 | 3818 | 3834 | 3850 | 3866 | 3882 | 3898 | 3914 | |
| 16 | 3930 | 3946 | 3962 | 3978 | 3994 | 4010 | 4026 | 4042 | 4058 | 4074 | |
| 17 | 4090 | 4106 | 4122 | 4138 | 4154 | 4170 | 4186 | 4202 | 4217 | 4233 | |
| 18 | 4249 | 4265 | 4281 | 4297 | 4313 | 4329 | 4345 | 4361 | 4377 | 4393 | |
| 19 | 4409 | 4425 | 4441 | 4457 | 4473 | 4489 | 4505 | 4521 | 4537 | 4553 | |
| 2720 | 43 4569 | 4585 | 4601 | 4617 | 4633 | 4649 | 4665 | 4681 | 4697 | 4713 | |
| 21 | 4729 | 4745 | 4760 | 4776 | 4792 | 4808 | 4824 | 4840 | 4856 | 4872 | |
| 22 | 4888 | 4904 | 4920 | 4936 | 4952 | 4968 | 4984 | 5000 | 5016 | 5032 | |
| 23 | 5048 | 5064 | 5080 | 5095 | 5111 | 5127 | 5143 | 5159 | 5175 | 5191 | |
| 24 | 5207 | 5223 | 5239 | 5255 | 5271 | 5287 | 5303 | 5319 | 5335 | 5351 | |
| 25 | 43 5367 | 5382 | 5398 | 5414 | 5430 | 5446 | 5462 | 5478 | 5494 | 5510 | |
| 26 | 5526 | 5542 | 5558 | 5574 | 5590 | 5606 | 5621 | 5637 | 5653 | 5669 | |
| 27 | 5685 | 5701 | 5717 | 5733 | 5749 | 5765 | 5781 | 5797 | 5813 | 5828 | |
| 28 | 5844 | 5860 | 5876 | 5892 | 5908 | 5924 | 5940 | 5956 | 5972 | 5988 | |
| 29 | 6004 | 6019 | 6035 | 6051 | 6067 | 6083 | 6099 | 6115 | 6131 | 6147 | |
| 2730 | 43 6163 | 6179 | 6194 | 6210 | 6226 | 6242 | 6258 | 6274 | 6290 | 6306 | |
| 31 | 6322 | 6338 | 6354 | 6369 | 6385 | 6401 | 6417 | 6433 | 6449 | 6465 | |
| 32 | 6481 | 6497 | 6512 | 6528 | 6544 | 6560 | 6576 | 6592 | 6608 | 6624 | |
| 33 | 6640 | 6656 | 6671 | 6687 | 6703 | 6719 | 6735 | 6751 | 6767 | 6783 | |
| 34 | 6799 | 6814 | 6830 | 6846 | 6862 | 6878 | 6894 | 6910 | 6926 | 6941 | |
| 35 | 43 6957 | 6973 | 6989 | 7005 | 7021 | 7037 | 7053 | 7068 | 7084 | 7100 | |
| 36 | 7116 | 7132 | 7148 | 7164 | 7180 | 7195 | 7211 | 7227 | 7243 | 7259 | |
| 37 | 7275 | 7291 | 7307 | 7322 | 7338 | 7354 | 7370 | 7386 | 7402 | 7418 | |
| 38 | 7433 | 7449 | 7465 | 7481 | 7497 | 7513 | 7529 | 7544 | 7560 | 7576 | |
| 39 | 7592 | 7608 | 7624 | 7640 | 7655 | 7671 | 7687 | 7703 | 7719 | 7735 | |
| 2740 | 43 7751 | 7766 | 7782 | 7798 | 7814 | 7830 | 7846 | 7861 | 7877 | 7893 | |
| 41 | 7909 | 7925 | 7941 | 7957 | 7972 | 7988 | 8004 | 8020 | 8036 | 8052 | |
| 42 | 8067 | 8083 | 8099 | 8115 | 8131 | 8147 | 8162 | 8178 | 8194 | 8210 | |
| 43 | 8226 | 8242 | 8257 | 8273 | 8289 | 8305 | 8321 | 8337 | 8352 | 8368 | |
| 44 | 8384 | 8400 | 8416 | 8432 | 8447 | 8463 | 8479 | 8495 | 8511 | 8527 | |
| 45 | 43 8542 | 8558 | 8574 | 8590 | 8606 | 8621 | 8637 | 8653 | 8669 | 8685 | |
| 46 | 8701 | 8716 | 8732 | 8748 | 8764 | 8780 | 8795 | 8811 | 8827 | 8843 | |
| 47 | 8859 | 8874 | 8890 | 8906 | 8922 | 8938 | 8954 | 8969 | 8985 | 9001 | |
| 48 | 9017 | 9033 | 9048 | 9064 | 9080 | 9096 | 9112 | 9127 | 9143 | 9159 | |
| 49 | 9175 | 9191 | 9206 | 9222 | 9238 | 9254 | 9270 | 9285 | 9301 | 9317 | |
| 2750 | 43 9333 | 9348 | 9364 | 9380 | 9396 | 9412 | 9427 | 9443 | 9459 | 9475 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 27000" = 7° 30' 0" | | | | 2700" = 0° 45' 0" | | | S. 4,685 | 562 | T. 600 | |
| | 27100" = 7 31 40 | | | | 2710" = 0 45 10 | | | | 562 | 600 | |
| | 27200" = 7 33 20 | | | | 2720" = 0 45 20 | | | | 562 | 600 | |
| | 27300" = 7 35 0 | | | | 2730" = 0 45 30 | | | | 562 | 600 | |
| | 27400" = 7 36 40 | | | | 2740" = 0 45 40 | | | | 562 | 600 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. | |
|-------|--------------|------|------|------|------|-------|--------------|------|------|------|--------|---------------------|
| 2750 | 43 9333 | 9348 | 9364 | 9380 | 9396 | 9412 | 9427 | 9443 | 9459 | 9475 | | |
| 51 | 9491 | 9506 | 9522 | 9538 | 9554 | 9570 | 9585 | 9601 | 9617 | 9633 | | |
| 52 | 9648 | 9664 | 9680 | 9696 | 9712 | 9727 | 9743 | 9759 | 9775 | 9790 | | |
| 53 | 9806 | 9822 | 9838 | 9854 | 9869 | 9885 | 9901 | 9917 | 9932 | 9948 | | |
| 54 | 9964 | 9980 | 9995 | 0011 | 0027 | 0043 | 0059 | 0074 | 0090 | 0106 | | |
| 55 | 44 0122 | 0137 | 0153 | 0169 | 0185 | 0200 | 0216 | 0232 | 0248 | 0263 | | |
| 56 | 0279 | 0295 | 0311 | 0326 | 0342 | 0358 | 0374 | 0390 | 0405 | 0421 | | |
| 57 | 0437 | 0453 | 0468 | 0484 | 0500 | 0516 | 0531 | 0547 | 0563 | 0579 | | |
| 58 | 0594 | 0610 | 0626 | 0641 | 0657 | 0673 | 0689 | 0704 | 0720 | 0736 | | |
| 59 | 0752 | 0767 | 0783 | 0799 | 0815 | 0830 | 0846 | 0862 | 0878 | 0893 | | |
| 2760 | 44 0909 | 0925 | 0941 | 0956 | 0972 | 0988 | 1003 | 1019 | 1035 | 1051 | | |
| 61 | 1066 | 1082 | 1098 | 1114 | 1129 | 1145 | 1161 | 1176 | 1192 | 1208 | 16 | |
| 62 | 1224 | 1239 | 1255 | 1271 | 1287 | 1302 | 1318 | 1334 | 1349 | 1365 | 1 1.6 | |
| 63 | 1381 | 1397 | 1412 | 1428 | 1444 | 1459 | 1475 | 1491 | 1507 | 1522 | 2 3.2 | |
| 64 | 1538 | 1554 | 1569 | 1585 | 1601 | 1617 | 1632 | 1648 | 1664 | 1679 | 3 4.8 | |
| 65 | 44 1695 | 1711 | 1727 | 1742 | 1758 | 1774 | 1789 | 1805 | 1821 | 1836 | 4 6.4 | |
| 66 | 1852 | 1868 | 1884 | 1899 | 1915 | 1931 | 1946 | 1962 | 1978 | 1993 | 5 8.0 | |
| 67 | 2009 | 2025 | 2041 | 2056 | 2072 | 2088 | 2103 | 2119 | 2135 | 2150 | 6 9.6 | |
| 68 | 2166 | 2182 | 2197 | 2213 | 2229 | 2245 | 2260 | 2276 | 2292 | 2307 | 7 11.2 | |
| 69 | 2323 | 2339 | 2354 | 2370 | 2386 | 2401 | 2417 | 2433 | 2448 | 2464 | 8 12.8 | |
| 2770 | 44 2480 | 2495 | 2511 | 2527 | 2542 | 2558 | 2574 | 2590 | 2605 | 2621 | 9 14.4 | |
| 71 | 2637 | 2652 | 2668 | 2684 | 2699 | 2715 | 2731 | 2746 | 2762 | 2778 | | |
| 72 | 2793 | 2809 | 2825 | 2840 | 2856 | 2872 | 2887 | 2903 | 2919 | 2934 | | |
| 73 | 2950 | 2966 | 2981 | 2997 | 3013 | 3028 | 3044 | 3059 | 3075 | 3091 | | |
| 74 | 3106 | 3122 | 3138 | 3153 | 3169 | 3185 | 3200 | 3216 | 3232 | 3247 | | |
| 75 | 44 3263 | 3279 | 3294 | 3310 | 3326 | 3341 | 3357 | 3373 | 3388 | 3404 | | |
| 76 | 3419 | 3435 | 3451 | 3466 | 3482 | 3498 | 3513 | 3529 | 3545 | 3560 | | |
| 77 | 3576 | 3592 | 3607 | 3623 | 3638 | 3654 | 3670 | 3685 | 3701 | 3717 | | |
| 78 | 3732 | 3748 | 3764 | 3779 | 3795 | 3810 | 3826 | 3842 | 3857 | 3873 | | |
| 79 | 3889 | 3904 | 3920 | 3935 | 3951 | 3967 | 3982 | 3998 | 4014 | 4029 | | |
| 2780 | 44 4045 | 4060 | 4076 | 4092 | 4107 | 4123 | 4139 | 4154 | 4170 | 4185 | 15 | |
| 81 | 4201 | 4217 | 4232 | 4248 | 4263 | 4279 | 4295 | 4310 | 4326 | 4342 | 1 1.5 | |
| 82 | 4357 | 4373 | 4388 | 4404 | 4420 | 4435 | 4451 | 4466 | 4482 | 4498 | 2 3.0 | |
| 83 | 4513 | 4529 | 4544 | 4560 | 4576 | 4591 | 4607 | 4622 | 4638 | 4654 | 3 4.5 | |
| 84 | 4669 | 4685 | 4700 | 4716 | 4732 | 4747 | 4763 | 4778 | 4794 | 4810 | 4 6.0 | |
| 85 | 44 4825 | 4841 | 4856 | 4872 | 4888 | 4903 | 4919 | 4934 | 4950 | 4966 | 5 7.5 | |
| 86 | 4981 | 4997 | 5012 | 5028 | 5043 | 5059 | 5075 | 5090 | 5106 | 5121 | 6 9.0 | |
| 87 | 5137 | 5153 | 5168 | 5184 | 5199 | 5215 | 5230 | 5246 | 5262 | 5277 | 7 10.5 | |
| 88 | 5293 | 5308 | 5324 | 5339 | 5355 | 5371 | 5386 | 5402 | 5417 | 5433 | 8 12.0 | |
| 89 | 5449 | 5464 | 5480 | 5495 | 5511 | 5526 | 5542 | 5558 | 5573 | 5589 | 9 13.5 | |
| 2790 | 44 5604 | 5620 | 5635 | 5651 | 5666 | 5682 | 5698 | 5713 | 5729 | 5744 | | |
| 91 | 5760 | 5775 | 5791 | 5807 | 5822 | 5838 | 5853 | 5869 | 5884 | 5900 | | |
| 92 | 5915 | 5931 | 5947 | 5962 | 5978 | 5993 | 6009 | 6024 | 6040 | 6055 | | |
| 93 | 6071 | 6086 | 6102 | 6118 | 6133 | 6149 | 6164 | 6180 | 6195 | 6211 | | |
| 94 | 6226 | 6242 | 6257 | 6273 | 6289 | 6304 | 6320 | 6335 | 6351 | 6366 | | |
| 95 | 44 6382 | 6397 | 6413 | 6428 | 6444 | 6459 | 6475 | 6491 | 6506 | 6522 | | |
| 96 | 6537 | 6553 | 6568 | 6584 | 6599 | 6615 | 6630 | 6646 | 6661 | 6677 | | |
| 97 | 6692 | 6708 | 6724 | 6739 | 6755 | 6770 | 6786 | 6801 | 6817 | 6832 | | |
| 98 | 6848 | 6863 | 6879 | 6894 | 6910 | 6925 | 6941 | 6956 | 6972 | 6987 | | |
| 99 | 7003 | 7018 | 7034 | 7049 | 7065 | 7080 | 7096 | 7111 | 7127 | 7143 | | |
| 2800 | 44 7158 | 7174 | 7189 | 7205 | 7220 | 7236 | 7251 | 7267 | 7282 | 7298 | | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. | |
| 27500 | = 7° 38' 20" | | | | | 27500 | = 0° 45' 50" | | | | | S. 4,685 562 T. 601 |
| 27600 | = 7 40 0 | | | | | 27600 | = 0 46 0 | | | | | 562 601 |
| 27700 | = 7 41 40 | | | | | 27700 | = 0 46 10 | | | | | 562 601 |
| 27800 | = 7 43 20 | | | | | 27800 | = 0 46 20 | | | | | 562 601 |
| 27900 | = 7 45 0 | | | | | 27900 | = 0 46 30 | | | | | 562 601 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|--------|------|------|--------|--------|------|----------|------|--------|--------|
| 2800 | 44 7158 | 7174 | 7189 | 7205 | 7220 | 7236 | 7251 | 7267 | 7282 | 7298 | |
| 01 | 7313 | 7329 | 7344 | 7360 | 7375 | 7391 | 7406 | 7422 | 7437 | 7453 | |
| 02 | 7468 | 7484 | 7499 | 7515 | 7530 | 7546 | 7561 | 7577 | 7592 | 7608 | |
| 03 | 7623 | 7639 | 7654 | 7670 | 7685 | 7701 | 7716 | 7732 | 7747 | 7763 | |
| 04 | 7778 | 7793 | 7809 | 7824 | 7840 | 7855 | 7871 | 7886 | 7902 | 7917 | |
| 05 | 44 7933 | 7948 | 7964 | 7979 | 7995 | 8010 | 8026 | 8041 | 8057 | 8072 | |
| 06 | 8088 | 8103 | 8119 | 8134 | 8150 | 8165 | 8181 | 8196 | 8211 | 8227 | |
| 07 | 8242 | 8258 | 8273 | 8289 | 8304 | 8320 | 8335 | 8351 | 8366 | 8382 | |
| 08 | 8397 | 8413 | 8428 | 8443 | 8459 | 8474 | 8490 | 8505 | 8521 | 8536 | |
| 09 | 8552 | 8567 | 8583 | 8598 | 8614 | 8629 | 8644 | 8660 | 8675 | 8691 | |
| 2810 | 44 8706 | 8722 | 8737 | 8753 | 8768 | 8784 | 8799 | 8814 | 8830 | 8845 | |
| 11 | 8861 | 8876 | 8892 | 8907 | 8923 | 8938 | 8954 | 8969 | 8984 | 9000 | |
| 12 | 9015 | 9031 | 9046 | 9062 | 9077 | 9093 | 9108 | 9123 | 9139 | 9154 | 1 1.6 |
| 13 | 9170 | 9185 | 9201 | 9216 | 9231 | 9247 | 9262 | 9278 | 9293 | 9309 | 2 3.2 |
| 14 | 9324 | 9340 | 9355 | 9370 | 9386 | 9401 | 9417 | 9432 | 9448 | 9463 | 3 4.8 |
| 15 | 44 9478 | 9494 | 9509 | 9525 | 9540 | 9556 | 9571 | 9586 | 9602 | 9617 | 4 6.4 |
| 16 | 9633 | 9648 | 9663 | 9679 | 9694 | 9710 | 9725 | 9741 | 9756 | 9771 | 5 8.0 |
| 17 | 9787 | 9802 | 9818 | 9833 | 9849 | 9864 | 9879 | 9895 | 9910 | 9926 | 6 9.6 |
| 18 | 9941 | 9956 | 9972 | 9987 | 0003 | 0018 | 0033 | 0049 | 0064 | 0080 | 7 11.2 |
| 19 | 45 0095 | 0110 | 0126 | 0141 | 0157 | 0172 | 0188 | 0203 | 0218 | 0234 | 8 12.8 |
| 2820 | 45 0249 | 0265 | 0280 | 0295 | 0311 | 0326 | 0342 | 0357 | 0372 | 0388 | 9 14.4 |
| 21 | 0403 | 0419 | 0434 | 0450 | 0465 | 0481 | 0496 | 0512 | 0527 | 0542 | |
| 22 | 0557 | 0572 | 0588 | 0603 | 0619 | 0634 | 0649 | 0665 | 0680 | 0695 | |
| 23 | 0711 | 0726 | 0742 | 0757 | 0772 | 0788 | 0803 | 0819 | 0834 | 0849 | |
| 24 | 0865 | 0880 | 0895 | 0911 | 0926 | 0942 | 0957 | 0972 | 0988 | 1003 | |
| 25 | 45 1018 | 1034 | 1049 | 1065 | 1080 | 1095 | 1111 | 1126 | 1141 | 1157 | |
| 26 | 1172 | 1188 | 1203 | 1218 | 1234 | 1249 | 1264 | 1280 | 1295 | 1310 | |
| 27 | 1326 | 1341 | 1357 | 1372 | 1387 | 1403 | 1418 | 1433 | 1449 | 1464 | |
| 28 | 1479 | 1495 | 1510 | 1525 | 1541 | 1556 | 1572 | 1587 | 1602 | 1618 | |
| 29 | 1633 | 1648 | 1664 | 1679 | 1694 | 1710 | 1725 | 1740 | 1756 | 1771 | |
| 2830 | 45 1786 | 1802 | 1817 | 1832 | 1848 | 1863 | 1879 | 1894 | 1909 | 1925 | |
| 31 | 1940 | 1955 | 1971 | 1986 | 2001 | 2017 | 2032 | 2047 | 2063 | 2078 | 15 |
| 32 | 2093 | 2109 | 2124 | 2139 | 2155 | 2170 | 2185 | 2201 | 2216 | 2231 | 1 1.5 |
| 33 | 2247 | 2262 | 2277 | 2293 | 2308 | 2323 | 2339 | 2354 | 2369 | 2385 | 2 3.0 |
| 34 | 2400 | 2415 | 2430 | 2446 | 2461 | 2476 | 2492 | 2507 | 2522 | 2538 | 3 4.5 |
| 35 | 45 2553 | 2568 | 2584 | 2599 | 2614 | 2630 | 2645 | 2660 | 2676 | 2691 | 4 6.0 |
| 36 | 2706 | 2722 | 2737 | 2752 | 2767 | 2783 | 2798 | 2813 | 2829 | 2844 | 5 7.5 |
| 37 | 2859 | 2875 | 2890 | 2905 | 2921 | 2936 | 2951 | 2966 | 2982 | 2997 | 6 9.0 |
| 38 | 3012 | 3028 | 3043 | 3058 | 3074 | 3089 | 3104 | 3119 | 3135 | 3150 | 7 10.5 |
| 39 | 3165 | 3181 | 3196 | 3211 | 3227 | 3242 | 3257 | 3272 | 3288 | 3303 | 8 12.0 |
| 2840 | 45 3318 | 3334 | 3349 | 3364 | 3380 | 3395 | 3410 | 3425 | 3441 | 3456 | 9 13.5 |
| 41 | 3471 | 3487 | 3502 | 3517 | 3532 | 3548 | 3563 | 3578 | 3594 | 3609 | |
| 42 | 3624 | 3639 | 3655 | 3670 | 3685 | 3700 | 3716 | 3731 | 3746 | 3762 | |
| 43 | 3777 | 3792 | 3807 | 3823 | 3838 | 3853 | 3869 | 3884 | 3899 | 3914 | |
| 44 | 3930 | 3945 | 3960 | 3975 | 3991 | 4006 | 4021 | 4036 | 4052 | 4067 | |
| 45 | 4082 | 4098 | 4113 | 4128 | 4143 | 4159 | 4174 | 4189 | 4204 | 4220 | |
| 46 | 4235 | 4250 | 4265 | 4281 | 4296 | 4311 | 4326 | 4342 | 4357 | 4372 | |
| 47 | 4387 | 4403 | 4418 | 4433 | 4448 | 4464 | 4479 | 4494 | 4509 | 4525 | |
| 48 | 4540 | 4555 | 4570 | 4586 | 4601 | 4616 | 4631 | 4647 | 4662 | 4677 | |
| 49 | 4692 | 4708 | 4723 | 4738 | 4753 | 4769 | 4784 | 4799 | 4814 | 4830 | |
| 2850 | 45 4845 | 4860 | 4875 | 4891 | 4906 | 4921 | 4936 | 4952 | 4967 | 4982 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 28000" | 7° 46' | 40" | | 28000" | 0° 46' | 40" | S. 4,685 | 562 | T. 602 | |
| | 28100 | 7 48 | 20 | | 28100 | 0 46 | 50 | | 561 | 602 | |
| | 28200 | 7 50 | 0 | | 28200 | 0 47 | 0 | | 561 | 602 | |
| | 28300 | 7 51 | 40 | | 28300 | 0 47 | 10 | | 561 | 602 | |
| | 28400 | 7 53 | 20 | | 28400 | 0 47 | 20 | | 561 | 602 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------|------|------|------|-------|------|------|------|----------|------|--------|
| 2900 | 46 2398 | 2413 | 2428 | 2443 | 2458 | 2473 | 2488 | 2503 | 2518 | 2533 | |
| 01 | 2548 | 2563 | 2578 | 2593 | 2608 | 2623 | 2638 | 2653 | 2667 | 2682 | |
| 02 | 2697 | 2712 | 2727 | 2742 | 2757 | 2772 | 2787 | 2802 | 2817 | 2832 | |
| 03 | 2847 | 2862 | 2877 | 2892 | 2907 | 2922 | 2937 | 2952 | 2967 | 2982 | |
| 04 | 2997 | 3012 | 3027 | 3041 | 3056 | 3071 | 3086 | 3101 | 3116 | 3131 | |
| 05 | 46 3146 | 3161 | 3176 | 3191 | 3206 | 3221 | 3236 | 3251 | 3266 | 3281 | |
| 06 | 3296 | 3311 | 3325 | 3340 | 3355 | 3370 | 3385 | 3400 | 3415 | 3430 | |
| 07 | 3445 | 3460 | 3475 | 3490 | 3505 | 3520 | 3535 | 3550 | 3565 | 3579 | |
| 08 | 3594 | 3609 | 3624 | 3639 | 3654 | 3669 | 3684 | 3699 | 3714 | 3729 | |
| 09 | 3744 | 3759 | 3774 | 3789 | 3803 | 3818 | 3833 | 3848 | 3863 | 3878 | |
| 2910 | 46 3893 | 3908 | 3923 | 3938 | 3953 | 3968 | 3983 | 3997 | 4012 | 4027 | |
| 11 | 4042 | 4057 | 4072 | 4087 | 4102 | 4117 | 4132 | 4147 | 4162 | 4176 | 15 |
| 12 | 4191 | 4206 | 4221 | 4236 | 4251 | 4266 | 4281 | 4296 | 4311 | 4326 | 1 1.5 |
| 13 | 4340 | 4355 | 4370 | 4385 | 4400 | 4415 | 4430 | 4445 | 4460 | 4475 | 2 3.0 |
| 14 | 4490 | 4504 | 4519 | 4534 | 4549 | 4564 | 4579 | 4594 | 4609 | 4624 | 3 4.5 |
| 15 | 46 4639 | 4653 | 4668 | 4683 | 4698 | 4713 | 4728 | 4743 | 4758 | 4773 | 4 6.0 |
| 16 | 4788 | 4802 | 4817 | 4832 | 4847 | 4862 | 4877 | 4892 | 4907 | 4922 | 5 7.5 |
| 17 | 4936 | 4951 | 4966 | 4981 | 4996 | 5011 | 5026 | 5041 | 5056 | 5070 | 6 9.0 |
| 18 | 5085 | 5100 | 5115 | 5130 | 5145 | 5160 | 5175 | 5189 | 5204 | 5219 | 7 10.5 |
| 19 | 5234 | 5249 | 5264 | 5279 | 5294 | 5308 | 5323 | 5338 | 5353 | 5368 | 8 12.0 |
| 2920 | 46 5383 | 5398 | 5413 | 5427 | 5442 | 5457 | 5472 | 5487 | 5502 | 5517 | 9 13.5 |
| 21 | 5532 | 5546 | 5561 | 5576 | 5591 | 5606 | 5621 | 5636 | 5650 | 5665 | |
| 22 | 5680 | 5695 | 5710 | 5725 | 5740 | 5755 | 5769 | 5784 | 5799 | 5814 | |
| 23 | 5829 | 5844 | 5859 | 5873 | 5888 | 5903 | 5918 | 5933 | 5948 | 5963 | |
| 24 | 5977 | 5992 | 6007 | 6022 | 6037 | 6052 | 6066 | 6081 | 6096 | 6111 | |
| 25 | 46 6126 | 6141 | 6156 | 6170 | 6185 | 6200 | 6215 | 6230 | 6245 | 6259 | |
| 26 | 6274 | 6289 | 6304 | 6319 | 6334 | 6349 | 6363 | 6378 | 6393 | 6408 | |
| 27 | 6423 | 6438 | 6452 | 6467 | 6482 | 6497 | 6512 | 6527 | 6541 | 6556 | |
| 28 | 6571 | 6586 | 6601 | 6616 | 6630 | 6645 | 6660 | 6675 | 6690 | 6705 | |
| 29 | 6719 | 6734 | 6749 | 6764 | 6779 | 6794 | 6808 | 6823 | 6838 | 6853 | |
| 2930 | 46 6868 | 6882 | 6897 | 6912 | 6927 | 6942 | 6957 | 6971 | 6986 | 7001 | |
| 31 | 7016 | 7031 | 7045 | 7060 | 7075 | 7090 | 7105 | 7120 | 7134 | 7149 | 14 |
| 32 | 7164 | 7179 | 7194 | 7208 | 7223 | 7238 | 7253 | 7268 | 7282 | 7297 | 1 1.4 |
| 33 | 7312 | 7327 | 7342 | 7356 | 7371 | 7386 | 7401 | 7416 | 7431 | 7445 | 2 2.8 |
| 34 | 7460 | 7475 | 7490 | 7505 | 7519 | 7534 | 7549 | 7564 | 7579 | 7593 | 3 4.2 |
| 35 | 46 7608 | 7623 | 7638 | 7652 | 7667 | 7682 | 7697 | 7712 | 7725 | 7741 | 4 5.6 |
| 36 | 7756 | 7771 | 7786 | 7800 | 7815 | 7830 | 7845 | 7860 | 7874 | 7889 | 5 7.0 |
| 37 | 7904 | 7919 | 7934 | 7948 | 7963 | 7978 | 7993 | 8007 | 8022 | 8037 | 6 8.4 |
| 38 | 8052 | 8067 | 8081 | 8096 | 8111 | 8126 | 8140 | 8155 | 8170 | 8185 | 7 9.8 |
| 39 | 8200 | 8214 | 8229 | 8244 | 8259 | 8273 | 8288 | 8303 | 8318 | 8333 | 8 11.2 |
| 2940 | 46 8347 | 8362 | 8377 | 8392 | 8406 | 8421 | 8436 | 8451 | 8465 | 8480 | 9 12.6 |
| 41 | 8495 | 8510 | 8525 | 8539 | 8554 | 8569 | 8584 | 8598 | 8613 | 8628 | |
| 42 | 8643 | 8657 | 8672 | 8687 | 8702 | 8716 | 8731 | 8746 | 8761 | 8776 | |
| 43 | 8790 | 8805 | 8820 | 8835 | 8849 | 8864 | 8879 | 8894 | 8908 | 8923 | |
| 44 | 8938 | 8953 | 8967 | 8982 | 8997 | 9012 | 9026 | 9041 | 9055 | 9071 | |
| 45 | 46 9085 | 9100 | 9115 | 9130 | 9144 | 9159 | 9174 | 9189 | 9203 | 9218 | |
| 46 | 9233 | 9247 | 9262 | 9277 | 9292 | 9306 | 9321 | 9336 | 9351 | 9365 | |
| 47 | 9380 | 9395 | 9410 | 9424 | 9439 | 9454 | 9469 | 9483 | 9498 | 9513 | |
| 48 | 9527 | 9542 | 9557 | 9572 | 9586 | 9601 | 9616 | 9631 | 9645 | 9660 | |
| 49 | 9675 | 9689 | 9704 | 9719 | 9734 | 9748 | 9763 | 9778 | 9793 | 9807 | |
| 2950 | 46 9822 | 9837 | 9851 | 9866 | 9881 | 9896 | 9910 | 9925 | 9940 | 9954 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 2900" | 8° | 3' | 20" | | 2900" | 0° | 48' | 20" | S. 4,685 | 561 | T. 603 |
| 29100 | 8 | 5 | 0 | | 2910 | 0 | 48 | 30 | | 560 | 604 |
| 29200 | 8 | 6 | 40 | | 2920 | 0 | 48 | 40 | | 560 | 604 |
| 29300 | 8 | 8 | 20 | | 2930 | 0 | 48 | 50 | | 560 | 604 |
| 29400 | 8 | 10 | 0 | | 2940 | 0 | 49 | 0 | | 560 | 604 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|--------------|------|------|--------------------|------|------|---------------------|------|------|------|------|
| 2950 | 46 9822 | 9837 | 9851 | 9866 | 9881 | 9896 | 9910 | 9925 | 9940 | 9954 | |
| 51 | 9969 | 9984 | 9999 | 0013 | 0028 | 0043 | 0058 | 0072 | 0087 | 0102 | |
| 52 | 47 0116 | 0131 | 0146 | 0160 | 0175 | 0190 | 0205 | 0219 | 0234 | 0249 | |
| 53 | 0263 | 0278 | 0293 | 0308 | 0322 | 0337 | 0352 | 0366 | 0381 | 0396 | |
| 54 | 0410 | 0425 | 0440 | 0455 | 0469 | 0484 | 0499 | 0513 | 0528 | 0543 | |
| 55 | 47 0557 | 0572 | 0587 | 0602 | 0616 | 0631 | 0646 | 0660 | 0675 | 0690 | |
| 56 | 0704 | 0719 | 0734 | 0749 | 0763 | 0778 | 0793 | 0807 | 0822 | 0837 | |
| 57 | 0851 | 0866 | 0881 | 0895 | 0910 | 0925 | 0939 | 0954 | 0969 | 0983 | |
| 58 | 0998 | 1013 | 1028 | 1042 | 1057 | 1072 | 1086 | 1101 | 1116 | 1130 | |
| 59 | 1145 | 1160 | 1174 | 1189 | 1204 | 1218 | 1233 | 1248 | 1262 | 1277 | |
| 2960 | 47 1292 | 1306 | 1321 | 1336 | 1350 | 1365 | 1380 | 1394 | 1409 | 1424 | |
| 61 | 1438 | 1453 | 1468 | 1482 | 1497 | 1512 | 1526 | 1541 | 1556 | 1570 | 15 |
| 62 | 1585 | 1600 | 1614 | 1629 | 1644 | 1658 | 1673 | 1688 | 1702 | 1717 | 1 |
| 63 | 1732 | 1746 | 1761 | 1776 | 1790 | 1805 | 1820 | 1834 | 1849 | 1864 | 2 |
| 64 | 1878 | 1893 | 1908 | 1922 | 1937 | 1951 | 1966 | 1981 | 1995 | 2010 | 3 |
| 65 | 47 2025 | 2039 | 2054 | 2069 | 2083 | 2098 | 2113 | 2127 | 2142 | 2157 | 4 |
| 66 | 2171 | 2186 | 2200 | 2215 | 2230 | 2244 | 2259 | 2274 | 2288 | 2303 | 5 |
| 67 | 2318 | 2332 | 2347 | 2361 | 2376 | 2391 | 2405 | 2420 | 2435 | 2449 | 6 |
| 68 | 2464 | 2479 | 2493 | 2508 | 2522 | 2537 | 2552 | 2566 | 2581 | 2596 | 7 |
| 69 | 2610 | 2625 | 2639 | 2654 | 2669 | 2683 | 2698 | 2713 | 2727 | 2742 | 8 |
| 2970 | 47 2756 | 2771 | 2786 | 2800 | 2815 | 2830 | 2844 | 2859 | 2873 | 2888 | 9 |
| 71 | 2903 | 2917 | 2932 | 2947 | 2961 | 2976 | 2990 | 3005 | 3020 | 3034 | 13.5 |
| 72 | 3049 | 3063 | 3078 | 3093 | 3107 | 3122 | 3136 | 3151 | 3166 | 3180 | |
| 73 | 3195 | 3210 | 3224 | 3239 | 3253 | 3268 | 3283 | 3297 | 3312 | 3326 | |
| 74 | 3341 | 3356 | 3370 | 3385 | 3399 | 3414 | 3429 | 3443 | 3458 | 3472 | |
| 75 | 47 3487 | 3502 | 3516 | 3531 | 3545 | 3560 | 3575 | 3589 | 3604 | 3618 | |
| 76 | 3633 | 3648 | 3662 | 3677 | 3691 | 3706 | 3720 | 3735 | 3750 | 3764 | |
| 77 | 3779 | 3793 | 3808 | 3823 | 3837 | 3852 | 3866 | 3881 | 3896 | 3910 | |
| 78 | 3925 | 3939 | 3954 | 3968 | 3983 | 3998 | 4012 | 4027 | 4041 | 4056 | |
| 79 | 4071 | 4085 | 4100 | 4114 | 4129 | 4143 | 4158 | 4173 | 4187 | 4202 | |
| 2980 | 47 4216 | 4231 | 4245 | 4260 | 4275 | 4289 | 4304 | 4318 | 4333 | 4347 | |
| 81 | 4362 | 4377 | 4391 | 4406 | 4420 | 4435 | 4449 | 4464 | 4479 | 4493 | 14 |
| 82 | 4508 | 4522 | 4537 | 4551 | 4566 | 4580 | 4595 | 4610 | 4624 | 4639 | 1 |
| 83 | 4653 | 4668 | 4682 | 4697 | 4711 | 4726 | 4741 | 4755 | 4770 | 4784 | 2 |
| 84 | 4799 | 4813 | 4828 | 4842 | 4857 | 4872 | 4886 | 4901 | 4915 | 4930 | 3 |
| 85 | 47 4944 | 4959 | 4973 | 4988 | 5003 | 5017 | 5032 | 5046 | 5061 | 5075 | 4 |
| 86 | 5090 | 5104 | 5119 | 5133 | 5148 | 5163 | 5177 | 5192 | 5206 | 5221 | 5 |
| 87 | 5235 | 5250 | 5264 | 5279 | 5293 | 5308 | 5322 | 5337 | 5352 | 5366 | 6 |
| 88 | 5381 | 5395 | 5410 | 5424 | 5439 | 5453 | 5468 | 5482 | 5497 | 5511 | 7 |
| 89 | 5526 | 5540 | 5555 | 5570 | 5584 | 5599 | 5613 | 5628 | 5642 | 5657 | 8 |
| 2990 | 47 5671 | 5686 | 5700 | 5715 | 5729 | 5744 | 5758 | 5773 | 5787 | 5802 | 9 |
| 91 | 5816 | 5831 | 5845 | 5860 | 5874 | 5889 | 5904 | 5918 | 5933 | 5947 | |
| 92 | 5962 | 5976 | 5991 | 6005 | 6020 | 6034 | 6049 | 6063 | 6078 | 6092 | |
| 93 | 6107 | 6121 | 6136 | 6150 | 6165 | 6179 | 6194 | 6208 | 6223 | 6237 | |
| 94 | 6252 | 6266 | 6281 | 6295 | 6310 | 6324 | 6339 | 6353 | 6368 | 6382 | |
| 95 | 47 6397 | 6411 | 6426 | 6440 | 6455 | 6469 | 6484 | 6498 | 6513 | 6527 | |
| 96 | 6542 | 6556 | 6571 | 6585 | 6600 | 6614 | 6629 | 6643 | 6658 | 6672 | |
| 97 | 6687 | 6701 | 6716 | 6730 | 6745 | 6759 | 6774 | 6788 | 6803 | 6817 | |
| 98 | 6832 | 6846 | 6861 | 6875 | 6890 | 6904 | 6919 | 6933 | 6948 | 6962 | |
| 99 | 6976 | 6991 | 7005 | 7020 | 7034 | 7049 | 7063 | 7078 | 7092 | 7107 | |
| 3000 | 47 7121 | 7136 | 7150 | 7165 | 7179 | 7194 | 7208 | 7223 | 7237 | 7252 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 29500" | = 8° 11' 40" | | | 2950' = 0° 49' 10" | | | S. 4.685 560 T. 604 | | | | |
| 29600 | = 8 13 20 | | | 2960 = 0 49 20 | | | 560 605 | | | | |
| 29700 | = 8 15 0 | | | 2970 = 0 49 30 | | | 560 605 | | | | |
| 29800 | = 8 16 40 | | | 2980 = 0 49 40 | | | 560 605 | | | | |
| 29900 | = 8 18 20 | | | 2990 = 0 49 50 | | | 560 605 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|--------------------|------|----------|------|--------|------|--------|
| 3000 | 47 7121 | 7136 | 7150 | 7165 | 7179 | 7194 | 7208 | 7223 | 7237 | 7252 | |
| 01 | 7266 | 7280 | 7295 | 7309 | 7324 | 7338 | 7353 | 7367 | 7382 | 7396 | |
| 02 | 7411 | 7425 | 7440 | 7454 | 7469 | 7483 | 7497 | 7512 | 7526 | 7541 | |
| 03 | 7555 | 7570 | 7584 | 7599 | 7613 | 7628 | 7642 | 7657 | 7671 | 7685 | |
| 04 | 7700 | 7714 | 7729 | 7743 | 7758 | 7772 | 7787 | 7801 | 7816 | 7830 | |
| 05 | 47 7844 | 7859 | 7873 | 7888 | 7902 | 7917 | 7931 | 7946 | 7960 | 7975 | |
| 06 | 7989 | 8003 | 8018 | 8032 | 8047 | 8061 | 8076 | 8090 | 8105 | 8119 | |
| 07 | 8133 | 8148 | 8162 | 8177 | 8191 | 8206 | 8220 | 8235 | 8249 | 8263 | |
| 08 | 8278 | 8292 | 8307 | 8321 | 8336 | 8350 | 8364 | 8379 | 8393 | 8408 | |
| 09 | 8422 | 8437 | 8451 | 8465 | 8480 | 8494 | 8509 | 8523 | 8538 | 8552 | |
| 3010 | 47 8566 | 8581 | 8595 | 8610 | 8624 | 8639 | 8653 | 8667 | 8682 | 8696 | |
| 11 | 8711 | 8725 | 8740 | 8754 | 8768 | 8783 | 8797 | 8812 | 8826 | 8841 | 15 |
| 12 | 8855 | 8869 | 8884 | 8898 | 8913 | 8927 | 8941 | 8956 | 8970 | 8985 | 1 1.5 |
| 13 | 8999 | 9014 | 9028 | 9042 | 9057 | 9071 | 9086 | 9100 | 9114 | 9129 | 2 3.0 |
| 14 | 9143 | 9158 | 9172 | 9186 | 9201 | 9215 | 9230 | 9244 | 9259 | 9273 | 3 4.5 |
| 15 | 47 9287 | 9302 | 9316 | 9331 | 9345 | 9359 | 9374 | 9388 | 9403 | 9417 | 4 6.0 |
| 16 | 9431 | 9446 | 9460 | 9475 | 9489 | 9503 | 9518 | 9532 | 9547 | 9561 | 5 7.5 |
| 17 | 9575 | 9590 | 9604 | 9618 | 9633 | 9647 | 9662 | 9676 | 9690 | 9705 | 6 9.0 |
| 18 | 9719 | 9734 | 9748 | 9762 | 9777 | 9791 | 9806 | 9820 | 9834 | 9849 | 7 10.5 |
| 19 | 9863 | 9877 | 9892 | 9906 | 9921 | 9935 | 9949 | 9964 | 9978 | 9993 | 8 12.0 |
| 3020 | 48 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9 13.5 |
| 21 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | |
| 22 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | |
| 23 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | |
| 24 | 0582 | 0606 | 0611 | 0625 | 0639 | 0654 | 0668 | 0682 | 0697 | 0711 | |
| 25 | 48 0725 | 0740 | 0754 | 0768 | 0783 | 0797 | 0812 | 0826 | 0840 | 0855 | |
| 26 | 0869 | 0883 | 0897 | 0912 | 0926 | 0941 | 0955 | 0969 | 0984 | 0998 | |
| 27 | 1012 | 1027 | 1041 | 1055 | 1070 | 1084 | 1098 | 1113 | 1127 | 1142 | |
| 28 | 1156 | 1170 | 1185 | 1199 | 1213 | 1228 | 1242 | 1256 | 1271 | 1285 | |
| 29 | 1299 | 1314 | 1328 | 1342 | 1357 | 1371 | 1385 | 1400 | 1414 | 1428 | |
| 3030 | 48 1443 | 1457 | 1471 | 1486 | 1500 | 1514 | 1529 | 1543 | 1557 | 1572 | |
| 31 | 1586 | 1600 | 1615 | 1629 | 1643 | 1658 | 1672 | 1686 | 1701 | 1715 | 14 |
| 32 | 1729 | 1744 | 1758 | 1772 | 1786 | 1801 | 1815 | 1829 | 1844 | 1858 | 1 1.4 |
| 33 | 1872 | 1887 | 1901 | 1915 | 1930 | 1944 | 1958 | 1973 | 1987 | 2001 | 2 2.8 |
| 34 | 2016 | 2030 | 2044 | 2059 | 2073 | 2087 | 2101 | 2116 | 2130 | 2144 | 3 4.2 |
| 35 | 48 2159 | 2173 | 2187 | 2202 | 2216 | 2230 | 2245 | 2259 | 2273 | 2287 | 4 5.6 |
| 36 | 2302 | 2316 | 2330 | 2345 | 2359 | 2373 | 2388 | 2402 | 2416 | 2430 | 5 7.0 |
| 37 | 2445 | 2459 | 2473 | 2488 | 2502 | 2516 | 2531 | 2545 | 2559 | 2573 | 6 8.4 |
| 38 | 2588 | 2602 | 2616 | 2631 | 2645 | 2659 | 2674 | 2688 | 2702 | 2716 | 7 9.8 |
| 39 | 2731 | 2745 | 2759 | 2774 | 2788 | 2802 | 2816 | 2831 | 2845 | 2859 | 8 11.2 |
| 3040 | 48 2874 | 2888 | 2902 | 2916 | 2931 | 2945 | 2959 | 2974 | 2988 | 3002 | 9 12.6 |
| 41 | 3016 | 3031 | 3045 | 3059 | 3074 | 3088 | 3102 | 3116 | 3131 | 3145 | |
| 42 | 3159 | 3173 | 3188 | 3202 | 3216 | 3231 | 3245 | 3259 | 3273 | 3288 | |
| 43 | 3302 | 3316 | 3330 | 3345 | 3359 | 3373 | 3388 | 3402 | 3416 | 3430 | |
| 44 | 3445 | 3459 | 3473 | 3487 | 3502 | 3516 | 3530 | 3545 | 3559 | 3573 | |
| 45 | 48 3587 | 3602 | 3616 | 3630 | 3644 | 3659 | 3673 | 3687 | 3701 | 3716 | |
| 46 | 3730 | 3744 | 3758 | 3773 | 3787 | 3801 | 3815 | 3830 | 3844 | 3858 | |
| 47 | 3872 | 3887 | 3901 | 3915 | 3929 | 3944 | 3958 | 3972 | 3986 | 4001 | |
| 48 | 4015 | 4029 | 4043 | 4058 | 4072 | 4086 | 4100 | 4115 | 4129 | 4143 | |
| 49 | 4157 | 4172 | 4186 | 4200 | 4214 | 4229 | 4243 | 4257 | 4271 | 4286 | |
| 3050 | 48 4300 | 4314 | 4328 | 4343 | 4357 | 4371 | 4385 | 4400 | 4414 | 4428 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 30000" = 8° 20' 0" | | | | 30000" = 0° 50' 0" | | S. 4 685 | 560 | T. 605 | | |
| | 30100 = 8 21 40 | | | | 30100 = 0 50 10 | | | 559 | 606 | | |
| | 30200 = 8 23 20 | | | | 30200 = 0 50 20 | | | 559 | 606 | | |
| | 30300 = 8 25 0 | | | | 30300 = 0 50 30 | | | 559 | 606 | | |
| | 30400 = 8 26 40 | | | | 30400 = 0 50 40 | | | 559 | 606 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|------|------|-------|-------|-------|-------|--------|
| 3050 | 48 4300 | 4314 | 4328 | 4343 | 4357 | 4371 | 4385 | 4400 | 4414 | 4428 | |
| 51 | 4442 | 4456 | 4471 | 4485 | 4499 | 4513 | 4528 | 4542 | 4556 | 4570 | |
| 52 | 4585 | 4599 | 4613 | 4627 | 4641 | 4656 | 4670 | 4684 | 4698 | 4713 | |
| 53 | 4727 | 4741 | 4755 | 4769 | 4784 | 4798 | 4812 | 4826 | 4841 | 4855 | |
| 54 | 4869 | 4883 | 4897 | 4912 | 4926 | 4940 | 4954 | 4969 | 4983 | 4997 | |
| 55 | 48 5011 | 5025 | 5040 | 5054 | 5068 | 5082 | 5097 | 5111 | 5125 | 5139 | |
| 56 | 5153 | 5168 | 5182 | 5196 | 5210 | 5224 | 5239 | 5253 | 5267 | 5281 | |
| 57 | 5295 | 5310 | 5324 | 5338 | 5352 | 5366 | 5381 | 5395 | 5409 | 5423 | |
| 58 | 5437 | 5452 | 5466 | 5480 | 5494 | 5508 | 5523 | 5537 | 5551 | 5565 | |
| 59 | 5579 | 5594 | 5608 | 5622 | 5636 | 5650 | 5665 | 5679 | 5693 | 5707 | |
| 3060 | 48 5721 | 5736 | 5750 | 5764 | 5778 | 5792 | 5807 | 5821 | 5835 | 5849 | |
| 61 | 5863 | 5878 | 5892 | 5906 | 5920 | 5934 | 5948 | 5963 | 5977 | 5991 | 15 |
| 62 | 6005 | 6019 | 6034 | 6048 | 6062 | 6076 | 6090 | 6104 | 6119 | 6133 | 1 1.5 |
| 63 | 6147 | 6161 | 6175 | 6190 | 6204 | 6218 | 6232 | 6246 | 6260 | 6275 | 2 3.0 |
| 64 | 6289 | 6303 | 6317 | 6331 | 6345 | 6360 | 6374 | 6388 | 6402 | 6416 | 3 4.5 |
| 65 | 48 6430 | 6445 | 6459 | 6473 | 6487 | 6501 | 6515 | 6530 | 6544 | 6558 | 4 6.0 |
| 66 | 6572 | 6586 | 6600 | 6615 | 6629 | 6643 | 6657 | 6671 | 6685 | 6700 | 5 7.5 |
| 67 | 6714 | 6728 | 6742 | 6756 | 6770 | 6785 | 6799 | 6813 | 6827 | 6841 | 6 9.0 |
| 68 | 6855 | 6870 | 6884 | 6898 | 6912 | 6926 | 6940 | 6954 | 6969 | 6983 | 7 10.5 |
| 69 | 6997 | 7011 | 7025 | 7039 | 7053 | 7068 | 7082 | 7096 | 7110 | 7124 | 8 12.0 |
| 3070 | 48 7138 | 7153 | 7167 | 7181 | 7195 | 7209 | 7223 | 7237 | 7252 | 7266 | 9 13.5 |
| 71 | 7280 | 7294 | 7308 | 7322 | 7336 | 7351 | 7365 | 7379 | 7393 | 7407 | |
| 72 | 7421 | 7435 | 7449 | 7464 | 7478 | 7492 | 7506 | 7520 | 7534 | 7548 | |
| 73 | 7563 | 7577 | 7591 | 7605 | 7619 | 7633 | 7647 | 7661 | 7676 | 7690 | |
| 74 | 7704 | 7718 | 7732 | 7746 | 7760 | 7774 | 7789 | 7803 | 7817 | 7831 | |
| 75 | 48 7845 | 7859 | 7873 | 7887 | 7902 | 7916 | 7930 | 7944 | 7958 | 7972 | |
| 76 | 7986 | 8000 | 8015 | 8029 | 8043 | 8057 | 8071 | 8085 | 8099 | 8113 | |
| 77 | 8127 | 8142 | 8156 | 8170 | 8184 | 8198 | 8212 | 8226 | 8240 | 8255 | |
| 78 | 8269 | 8283 | 8297 | 8311 | 8325 | 8339 | 8353 | 8367 | 8381 | 8396 | |
| 79 | 8410 | 8424 | 8438 | 8452 | 8466 | 8480 | 8494 | 8508 | 8523 | 8537 | |
| 3080 | 48 8551 | 8565 | 8579 | 8593 | 8607 | 8621 | 8635 | 8649 | 8664 | 8678 | |
| 81 | 8692 | 8706 | 8720 | 8734 | 8748 | 8762 | 8776 | 8790 | 8804 | 8819 | 14 |
| 82 | 8833 | 8847 | 8861 | 8875 | 8889 | 8903 | 8917 | 8931 | 8945 | 8959 | 1 1.4 |
| 83 | 8974 | 8988 | 9002 | 9016 | 9030 | 9044 | 9058 | 9072 | 9086 | 9100 | 2 2.8 |
| 84 | 9114 | 9128 | 9143 | 9157 | 9171 | 9185 | 9199 | 9213 | 9227 | 9241 | 3 4.2 |
| 85 | 48 9255 | 9269 | 9283 | 9297 | 9311 | 9326 | 9340 | 9354 | 9368 | 9382 | 4 5.6 |
| 86 | 9396 | 9410 | 9424 | 9438 | 9452 | 9466 | 9480 | 9494 | 9508 | 9523 | 5 7.0 |
| 87 | 9537 | 9551 | 9565 | 9579 | 9593 | 9607 | 9621 | 9635 | 9649 | 9663 | 6 8.4 |
| 88 | 9677 | 9691 | 9705 | 9719 | 9734 | 9748 | 9762 | 9776 | 9790 | 9804 | 7 9.8 |
| 89 | 9818 | 9832 | 9846 | 9860 | 9874 | 9888 | 9902 | 9916 | 9930 | 9944 | 8 11.2 |
| 3090 | 48 9958 | 9973 | 9987 | 9991 | 9995 | 9999 | 10003 | 10007 | 10011 | 10015 | 9 12.6 |
| 91 | 49 0099 | 0113 | 0127 | 0141 | 0155 | 0169 | 0183 | 0197 | 0211 | 0225 | |
| 92 | 0239 | 0254 | 0268 | 0282 | 0296 | 0310 | 0324 | 0338 | 0352 | 0366 | |
| 93 | 0380 | 0394 | 0408 | 0422 | 0436 | 0450 | 0464 | 0478 | 0492 | 0506 | |
| 94 | 0520 | 0534 | 0548 | 0562 | 0576 | 0590 | 0605 | 0619 | 0633 | 0647 | |
| 95 | 49 0661 | 0675 | 0689 | 0703 | 0717 | 0731 | 0745 | 0759 | 0773 | 0787 | |
| 96 | 0801 | 0815 | 0829 | 0843 | 0857 | 0871 | 0885 | 0899 | 0913 | 0927 | |
| 97 | 0941 | 0955 | 0969 | 0983 | 0997 | 1011 | 1025 | 1039 | 1053 | 1067 | |
| 98 | 1081 | 1095 | 1109 | 1123 | 1137 | 1152 | 1166 | 1180 | 1194 | 1208 | |
| 99 | 1222 | 1236 | 1250 | 1264 | 1278 | 1292 | 1306 | 1320 | 1334 | 1348 | |
| 3100 | 49 1362 | 1376 | 1390 | 1404 | 1418 | 1432 | 1446 | 1460 | 1474 | 1488 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 30500 | = 8° 28' 20" | | | | | | | | | | |
| 30600 | = 8 30 0 | | | | | | | | | | |
| 30700 | = 8 31 40 | | | | | | | | | | |
| 30800 | = 8 33 20 | | | | | | | | | | |
| 30900 | = 8 35 0 | | | | | | | | | | |
| 30500 | = 0° 50' 50" | | | | | | | | | | |
| 30600 | = 0 51 0 | | | | | | | | | | |
| 30700 | = 0 51 10 | | | | | | | | | | |
| 30800 | = 0 51 20 | | | | | | | | | | |
| 30900 | = 0 51 30 | | | | | | | | | | |

S. 4,685 559 T. 607

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| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|--------------------|------|------|----------|------|--------|--------|
| 3100 | 49 1362 | 1376 | 1390 | 1404 | 1418 | 1432 | 1446 | 1460 | 1474 | 1488 | |
| 01 | 1502 | 1516 | 1530 | 1544 | 1558 | 1572 | 1586 | 1600 | 1614 | 1628 | |
| 02 | 1642 | 1656 | 1670 | 1684 | 1698 | 1712 | 1726 | 1740 | 1754 | 1768 | |
| 03 | 1782 | 1796 | 1810 | 1824 | 1838 | 1852 | 1866 | 1880 | 1894 | 1908 | |
| 04 | 1922 | 1936 | 1950 | 1964 | 1978 | 1992 | 2006 | 2020 | 2034 | 2048 | |
| 05 | 49 2062 | 2076 | 2090 | 2104 | 2118 | 2132 | 2146 | 2160 | 2173 | 2187 | |
| 06 | 2201 | 2215 | 2229 | 2243 | 2257 | 2271 | 2285 | 2299 | 2313 | 2327 | |
| 07 | 2341 | 2355 | 2369 | 2383 | 2397 | 2411 | 2425 | 2439 | 2453 | 2467 | |
| 08 | 2481 | 2495 | 2509 | 2523 | 2537 | 2551 | 2565 | 2579 | 2593 | 2607 | |
| 09 | 2621 | 2635 | 2649 | 2663 | 2677 | 2691 | 2705 | 2718 | 2732 | 2746 | |
| 3110 | 49 2760 | 2774 | 2788 | 2802 | 2816 | 2830 | 2844 | 2858 | 2872 | 2886 | |
| 11 | 2900 | 2914 | 2928 | 2942 | 2956 | 2970 | 2984 | 2998 | 3012 | 3026 | 14 |
| 12 | 3040 | 3054 | 3067 | 3081 | 3095 | 3109 | 3123 | 3137 | 3151 | 3165 | 1 1.4 |
| 13 | 3179 | 3193 | 3207 | 3221 | 3235 | 3249 | 3263 | 3277 | 3291 | 3305 | 2 2.8 |
| 14 | 3319 | 3333 | 3347 | 3360 | 3374 | 3388 | 3402 | 3416 | 3430 | 3444 | 3 4.2 |
| 15 | 49 3458 | 3472 | 3486 | 3500 | 3514 | 3528 | 3542 | 3556 | 3570 | 3584 | 4 5.6 |
| 16 | 3597 | 3611 | 3625 | 3639 | 3653 | 3667 | 3681 | 3695 | 3709 | 3723 | 5 7.0 |
| 17 | 3737 | 3751 | 3765 | 3779 | 3793 | 3806 | 3820 | 3834 | 3848 | 3862 | 6 8.4 |
| 18 | 3876 | 3890 | 3904 | 3918 | 3932 | 3946 | 3960 | 3974 | 3988 | 4001 | 7 9.8 |
| 19 | 4015 | 4029 | 4043 | 4057 | 4071 | 4085 | 4099 | 4113 | 4127 | 4141 | 8 11.2 |
| 3120 | 49 4155 | 4169 | 4182 | 4196 | 4210 | 4224 | 4238 | 4252 | 4266 | 4280 | 9 12.6 |
| 21 | 4294 | 4308 | 4322 | 4336 | 4349 | 4363 | 4377 | 4391 | 4405 | 4419 | |
| 22 | 4433 | 4447 | 4461 | 4475 | 4489 | 4502 | 4516 | 4530 | 4544 | 4558 | |
| 23 | 4572 | 4586 | 4600 | 4614 | 4628 | 4642 | 4655 | 4669 | 4683 | 4697 | |
| 24 | 4711 | 4725 | 4739 | 4753 | 4767 | 4781 | 4794 | 4808 | 4822 | 4836 | |
| 25 | 49 4850 | 4864 | 4878 | 4892 | 4906 | 4920 | 4933 | 4947 | 4961 | 4975 | |
| 26 | 4989 | 5003 | 5017 | 5031 | 5045 | 5058 | 5072 | 5086 | 5100 | 5114 | |
| 27 | 5128 | 5142 | 5156 | 5170 | 5183 | 5197 | 5211 | 5225 | 5239 | 5253 | |
| 28 | 5267 | 5281 | 5295 | 5308 | 5322 | 5336 | 5350 | 5364 | 5378 | 5392 | |
| 29 | 5406 | 5419 | 5433 | 5447 | 5461 | 5475 | 5489 | 5503 | 5517 | 5530 | |
| 3130 | 49 5544 | 5558 | 5572 | 5586 | 5600 | 5614 | 5628 | 5641 | 5655 | 5669 | |
| 31 | 5683 | 5697 | 5711 | 5725 | 5739 | 5752 | 5766 | 5780 | 5794 | 5808 | 13 |
| 32 | 5822 | 5836 | 5849 | 5863 | 5877 | 5891 | 5905 | 5919 | 5933 | 5947 | 1 1.3 |
| 33 | 5960 | 5974 | 5988 | 6002 | 6016 | 6030 | 6044 | 6057 | 6071 | 6085 | 2 2.6 |
| 34 | 6099 | 6113 | 6127 | 6141 | 6154 | 6168 | 6182 | 6196 | 6210 | 6224 | 3 3.9 |
| 35 | 49 6238 | 6251 | 6265 | 6279 | 6293 | 6307 | 6321 | 6335 | 6348 | 6362 | 4 5.2 |
| 36 | 6376 | 6390 | 6404 | 6418 | 6431 | 6445 | 6459 | 6473 | 6487 | 6501 | 5 6.5 |
| 37 | 6515 | 6528 | 6542 | 6556 | 6570 | 6584 | 6598 | 6611 | 6625 | 6639 | 6 7.8 |
| 38 | 6653 | 6667 | 6681 | 6694 | 6708 | 6722 | 6736 | 6750 | 6764 | 6777 | 7 9.1 |
| 39 | 6791 | 6805 | 6819 | 6833 | 6847 | 6860 | 6874 | 6888 | 6902 | 6916 | 8 10.4 |
| 3140 | 49 6930 | 6943 | 6957 | 6971 | 6985 | 6999 | 7013 | 7026 | 7040 | 7054 | 9 11.7 |
| 41 | 7068 | 7082 | 7096 | 7109 | 7123 | 7137 | 7151 | 7165 | 7179 | 7192 | |
| 42 | 7206 | 7220 | 7234 | 7248 | 7261 | 7275 | 7289 | 7303 | 7317 | 7331 | |
| 43 | 7344 | 7358 | 7372 | 7386 | 7400 | 7413 | 7427 | 7441 | 7455 | 7469 | |
| 44 | 7483 | 7496 | 7510 | 7524 | 7538 | 7552 | 7565 | 7579 | 7593 | 7607 | |
| 45 | 49 7621 | 7634 | 7648 | 7662 | 7676 | 7690 | 7703 | 7717 | 7731 | 7745 | |
| 46 | 7759 | 7773 | 7786 | 7800 | 7814 | 7828 | 7842 | 7855 | 7869 | 7883 | |
| 47 | 7897 | 7911 | 7924 | 7938 | 7952 | 7966 | 7980 | 7993 | 8007 | 8021 | |
| 48 | 8035 | 8049 | 8062 | 8076 | 8090 | 8104 | 8117 | 8131 | 8145 | 8159 | |
| 49 | 8173 | 8186 | 8200 | 8214 | 8228 | 8242 | 8255 | 8269 | 8283 | 8297 | |
| 3150 | 49 8311 | 8324 | 8338 | 8352 | 8366 | 8379 | 8393 | 8407 | 8421 | 8435 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 3100" = 8° 36' 40" | | | | 3100" = 0° 51' 40" | | | S. 4,685 | 559 | T. 608 | |
| | 31100 = 8 38 20 | | | | 3110 = 0 51 50 | | | | 558 | 608 | |
| | 31200 = 8 40 0 | | | | 3120 = 0 52 0 | | | | 558 | 608 | |
| | 31300 = 8 41 40 | | | | 3130 = 0 52 10 | | | | 558 | 608 | |
| | 31400 = 8 43 20 | | | | 3140 = 0 52 20 | | | | 558 | 608 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|--------|------|------|--------|--------|------|----------|------|--------|--------|
| 3150 | 49 8311 | 8324 | 8338 | 8352 | 8366 | 8379 | 8393 | 8407 | 8421 | 8435 | |
| 51 | 8448 | 8462 | 8476 | 8490 | 8504 | 8517 | 8531 | 8545 | 8559 | 8572 | |
| 52 | 8586 | 8600 | 8614 | 8628 | 8641 | 8655 | 8669 | 8683 | 8696 | 8710 | |
| 53 | 8724 | 8738 | 8752 | 8765 | 8779 | 8793 | 8807 | 8820 | 8834 | 8848 | |
| 54 | 8862 | 8875 | 8889 | 8903 | 8917 | 8931 | 8944 | 8958 | 8972 | 8986 | |
| 55 | 49 8999 | 9013 | 9027 | 9041 | 9054 | 9068 | 9082 | 9096 | 9109 | 9123 | |
| 56 | 9137 | 9151 | 9165 | 9178 | 9192 | 9206 | 9220 | 9233 | 9247 | 9261 | |
| 57 | 9275 | 9288 | 9302 | 9316 | 9330 | 9343 | 9357 | 9371 | 9385 | 9398 | |
| 58 | 9412 | 9426 | 9440 | 9453 | 9467 | 9481 | 9495 | 9508 | 9522 | 9536 | |
| 59 | 9550 | 9563 | 9577 | 9591 | 9605 | 9618 | 9632 | 9646 | 9660 | 9673 | |
| 3160 | 49 9687 | 9701 | 9715 | 9728 | 9742 | 9756 | 9770 | 9783 | 9797 | 9811 | |
| 61 | 9824 | 9838 | 9852 | 9866 | 9879 | 9893 | 9907 | 9921 | 9934 | 9948 | I 4 |
| 62 | 9962 | 9976 | 9989 | 0003 | 0017 | 0031 | 0044 | 0058 | 0072 | 0085 | 1 1.4 |
| 63 | 50 0099 | 0113 | 0127 | 0140 | 0154 | 0168 | 0182 | 0195 | 0209 | 0223 | 2 2.8 |
| 64 | 0236 | 0250 | 0264 | 0278 | 0291 | 0305 | 0319 | 0333 | 0346 | 0360 | 3 4.2 |
| 65 | 50 0374 | 0387 | 0401 | 0415 | 0429 | 0442 | 0456 | 0470 | 0483 | 0497 | 4 5.6 |
| 66 | 0511 | 0525 | 0538 | 0552 | 0566 | 0579 | 0593 | 0607 | 0621 | 0634 | 5 7.0 |
| 67 | 0648 | 0662 | 0675 | 0689 | 0703 | 0717 | 0730 | 0744 | 0758 | 0771 | 6 8.4 |
| 68 | 0785 | 0799 | 0813 | 0826 | 0840 | 0854 | 0867 | 0881 | 0895 | 0909 | 7 9.8 |
| 69 | 0922 | 0936 | 0950 | 0963 | 0977 | 0991 | 1004 | 1018 | 1032 | 1046 | 8 11.2 |
| 3170 | 50 1059 | 1073 | 1087 | 1100 | 1114 | 1128 | 1141 | 1155 | 1169 | 1183 | 9 12.6 |
| 71 | 1196 | 1210 | 1224 | 1237 | 1251 | 1265 | 1278 | 1292 | 1306 | 1319 | |
| 72 | 1333 | 1347 | 1361 | 1374 | 1388 | 1402 | 1415 | 1429 | 1443 | 1456 | |
| 73 | 1470 | 1484 | 1497 | 1511 | 1525 | 1539 | 1552 | 1566 | 1580 | 1593 | |
| 74 | 1607 | 1621 | 1634 | 1648 | 1662 | 1675 | 1689 | 1703 | 1716 | 1730 | |
| 75 | 50 1744 | 1757 | 1771 | 1785 | 1798 | 1812 | 1826 | 1839 | 1853 | 1867 | |
| 76 | 1880 | 1894 | 1908 | 1922 | 1935 | 1949 | 1963 | 1976 | 1990 | 2004 | |
| 77 | 2017 | 2031 | 2045 | 2058 | 2072 | 2086 | 2099 | 2113 | 2127 | 2140 | |
| 78 | 2154 | 2168 | 2181 | 2195 | 2209 | 2222 | 2236 | 2250 | 2263 | 2277 | |
| 79 | 2291 | 2304 | 2318 | 2332 | 2345 | 2359 | 2372 | 2386 | 2400 | 2413 | |
| 3180 | 50 2427 | 2441 | 2454 | 2468 | 2482 | 2495 | 2509 | 2523 | 2536 | 2550 | |
| 81 | 2564 | 2577 | 2591 | 2605 | 2618 | 2632 | 2646 | 2659 | 2673 | 2687 | I 3 |
| 82 | 2700 | 2714 | 2727 | 2741 | 2755 | 2768 | 2782 | 2796 | 2809 | 2823 | 1 1.3 |
| 83 | 2837 | 2850 | 2864 | 2878 | 2891 | 2905 | 2918 | 2932 | 2946 | 2959 | 2 2.6 |
| 84 | 2973 | 2987 | 3000 | 3014 | 3028 | 3041 | 3055 | 3069 | 3082 | 3096 | 3 3.9 |
| 85 | 50 3109 | 3123 | 3137 | 3150 | 3164 | 3178 | 3191 | 3205 | 3219 | 3232 | 4 5.2 |
| 86 | 3246 | 3259 | 3273 | 3287 | 3300 | 3314 | 3328 | 3341 | 3355 | 3368 | 5 6.5 |
| 87 | 3382 | 3396 | 3409 | 3423 | 3437 | 3450 | 3464 | 3477 | 3491 | 3505 | 6 7.8 |
| 88 | 3518 | 3532 | 3546 | 3559 | 3573 | 3586 | 3600 | 3614 | 3627 | 3641 | 7 9.1 |
| 89 | 3655 | 3668 | 3682 | 3695 | 3709 | 3723 | 3736 | 3750 | 3763 | 3777 | 8 10.4 |
| 3190 | 50 3791 | 3804 | 3818 | 3832 | 3845 | 3859 | 3872 | 3886 | 3900 | 3913 | 9 11.7 |
| 91 | 3927 | 3940 | 3954 | 3968 | 3981 | 3995 | 4008 | 4022 | 4036 | 4049 | |
| 92 | 4063 | 4076 | 4090 | 4104 | 4117 | 4131 | 4145 | 4158 | 4172 | 4185 | |
| 93 | 4199 | 4213 | 4226 | 4240 | 4253 | 4267 | 4281 | 4294 | 4308 | 4321 | |
| 94 | 4335 | 4349 | 4362 | 4376 | 4389 | 4403 | 4416 | 4430 | 4444 | 4457 | |
| 95 | 50 4471 | 4484 | 4498 | 4512 | 4525 | 4539 | 4552 | 4566 | 4580 | 4593 | |
| 96 | 4607 | 4620 | 4634 | 4648 | 4661 | 4675 | 4688 | 4702 | 4715 | 4729 | |
| 97 | 4743 | 4756 | 4770 | 4783 | 4797 | 4811 | 4824 | 4838 | 4851 | 4865 | |
| 98 | 4878 | 4892 | 4906 | 4919 | 4933 | 4946 | 4960 | 4974 | 4987 | 5001 | |
| 99 | 5014 | 5028 | 5041 | 5055 | 5069 | 5082 | 5096 | 5109 | 5123 | 5136 | |
| 3200 | 50 5150 | 5164 | 5177 | 5191 | 5204 | 5218 | 5231 | 5245 | 5259 | 5272 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 31500" | 8° 45' | 0" | | 31500" | 0° 52' | 30" | S. 4.685 | 558 | T. 609 | |
| | 31600 | 8 46 | 40 | | 31600 | 0 52 | 40 | | 558 | 609 | |
| | 31700 | 8 48 | 20 | | 31700 | 0 52 | 50 | | 558 | 609 | |
| | 31800 | 8 50 | 0 | | 31800 | 0 53 | 0 | | 558 | 609 | |
| | 31900 | 8 51 | 40 | | 31900 | 0 53 | 10 | | 558 | 609 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|--------------------|------|------|-----------|------|--------|--------|
| 3200 | 50 5150 | 5164 | 5177 | 5191 | 5204 | 5218 | 5231 | 5245 | 5259 | 5272 | |
| 01 | 5286 | 5299 | 5313 | 5326 | 5340 | 5354 | 5367 | 5381 | 5394 | 5408 | |
| 02 | 5421 | 5435 | 5448 | 5462 | 5476 | 5489 | 5503 | 5516 | 5530 | 5543 | |
| 03 | 5557 | 5570 | 5584 | 5598 | 5611 | 5625 | 5638 | 5652 | 5665 | 5679 | |
| 04 | 5693 | 5706 | 5720 | 5733 | 5747 | 5760 | 5774 | 5787 | 5801 | 5814 | |
| 05 | 5828 | 5842 | 5855 | 5869 | 5882 | 5896 | 5909 | 5923 | 5936 | 5950 | |
| 06 | 5964 | 5977 | 5991 | 6004 | 6018 | 6031 | 6045 | 6058 | 6072 | 6085 | |
| 07 | 6099 | 6113 | 6126 | 6140 | 6153 | 6167 | 6180 | 6194 | 6207 | 6221 | |
| 08 | 6234 | 6248 | 6261 | 6275 | 6289 | 6302 | 6316 | 6329 | 6343 | 6356 | |
| 09 | 6370 | 6383 | 6397 | 6410 | 6424 | 6437 | 6451 | 6464 | 6478 | 6491 | |
| 3210 | 50 6505 | 6519 | 6532 | 6546 | 6559 | 6573 | 6586 | 6600 | 6613 | 6627 | |
| 11 | 6640 | 6654 | 6667 | 6681 | 6694 | 6708 | 6721 | 6735 | 6748 | 6762 | I 4 |
| 12 | 6776 | 6789 | 6803 | 6816 | 6830 | 6843 | 6857 | 6870 | 6884 | 6897 | 1 I. 4 |
| 13 | 6911 | 6924 | 6938 | 6951 | 6965 | 6978 | 6992 | 7005 | 7019 | 7032 | 2 2.8 |
| 14 | 7046 | 7059 | 7073 | 7086 | 7100 | 7113 | 7127 | 7140 | 7154 | 7167 | 3 4.2 |
| 15 | 50 7181 | 7194 | 7208 | 7222 | 7235 | 7249 | 7262 | 7276 | 7289 | 7303 | 4 5.6 |
| 16 | 7316 | 7330 | 7343 | 7357 | 7370 | 7384 | 7397 | 7411 | 7424 | 7438 | 5 7.0 |
| 17 | 7451 | 7465 | 7478 | 7492 | 7505 | 7519 | 7532 | 7546 | 7559 | 7573 | 6 8.4 |
| 18 | 7586 | 7600 | 7613 | 7627 | 7640 | 7654 | 7667 | 7681 | 7694 | 7707 | 7 9.8 |
| 19 | 7721 | 7734 | 7748 | 7761 | 7775 | 7788 | 7802 | 7815 | 7829 | 7842 | 8 11.2 |
| 3220 | 50 7856 | 7869 | 7883 | 7896 | 7910 | 7923 | 7937 | 7950 | 7964 | 7977 | 9 12.6 |
| 21 | 7991 | 8004 | 8018 | 8031 | 8045 | 8058 | 8072 | 8085 | 8099 | 8112 | |
| 22 | 8126 | 8139 | 8152 | 8166 | 8179 | 8193 | 8206 | 8220 | 8233 | 8247 | |
| 23 | 8260 | 8274 | 8287 | 8301 | 8314 | 8328 | 8341 | 8355 | 8368 | 8382 | |
| 24 | 8395 | 8409 | 8422 | 8435 | 8449 | 8462 | 8476 | 8489 | 8503 | 8516 | |
| 25 | 50 8530 | 8543 | 8557 | 8570 | 8584 | 8597 | 8611 | 8624 | 8637 | 8651 | |
| 26 | 8664 | 8678 | 8691 | 8705 | 8718 | 8732 | 8745 | 8759 | 8772 | 8786 | |
| 27 | 8799 | 8812 | 8826 | 8839 | 8853 | 8866 | 8880 | 8893 | 8907 | 8920 | |
| 28 | 8934 | 8947 | 8960 | 8974 | 8987 | 9001 | 9014 | 9028 | 9041 | 9055 | |
| 29 | 9068 | 9081 | 9095 | 9108 | 9122 | 9135 | 9149 | 9162 | 9176 | 9189 | |
| 3230 | 50 9203 | 9216 | 9229 | 9243 | 9256 | 9270 | 9283 | 9297 | 9310 | 9324 | |
| 31 | 9337 | 9350 | 9364 | 9377 | 9391 | 9404 | 9418 | 9431 | 9444 | 9458 | I 3 |
| 32 | 9471 | 9484 | 9498 | 9511 | 9525 | 9539 | 9552 | 9565 | 9579 | 9592 | 1 I. 3 |
| 33 | 9606 | 9619 | 9633 | 9646 | 9659 | 9673 | 9686 | 9700 | 9713 | 9727 | 2 2.6 |
| 34 | 9740 | 9753 | 9767 | 9780 | 9794 | 9807 | 9821 | 9834 | 9847 | 9861 | 3 3.9 |
| 35 | 50 9874 | 9888 | 9901 | 9915 | 9929 | 9942 | 9955 | 9968 | 9982 | 9995 | 4 5.2 |
| 36 | 51 0009 | 0022 | 0035 | 0049 | 0062 | 0076 | 0089 | 0102 | 0116 | 0129 | 5 6.5 |
| 37 | 0143 | 0156 | 0170 | 0183 | 0196 | 0210 | 0223 | 0237 | 0250 | 0263 | 6 7.8 |
| 38 | 0277 | 0290 | 0304 | 0317 | 0330 | 0344 | 0357 | 0371 | 0384 | 0398 | 7 9.1 |
| 39 | 0411 | 0424 | 0438 | 0451 | 0465 | 0478 | 0491 | 0505 | 0518 | 0532 | 8 10.4 |
| 3240 | 51 0545 | 0558 | 0572 | 0585 | 0599 | 0612 | 0625 | 0639 | 0652 | 0666 | 9 11.7 |
| 41 | 0679 | 0692 | 0706 | 0719 | 0733 | 0746 | 0759 | 0773 | 0786 | 0800 | |
| 42 | 0813 | 0826 | 0840 | 0853 | 0867 | 0880 | 0893 | 0907 | 0920 | 0934 | |
| 43 | 0947 | 0960 | 0974 | 0987 | 1001 | 1014 | 1027 | 1041 | 1054 | 1067 | |
| 44 | 1081 | 1094 | 1108 | 1121 | 1134 | 1148 | 1161 | 1175 | 1188 | 1201 | |
| 45 | 51 1215 | 1228 | 1241 | 1255 | 1268 | 1282 | 1295 | 1308 | 1322 | 1335 | |
| 46 | 1349 | 1362 | 1375 | 1389 | 1402 | 1415 | 1429 | 1442 | 1456 | 1469 | |
| 47 | 1482 | 1495 | 1509 | 1522 | 1536 | 1549 | 1563 | 1576 | 1589 | 1603 | |
| 48 | 1616 | 1629 | 1643 | 1656 | 1670 | 1683 | 1696 | 1710 | 1723 | 1736 | |
| 49 | 1750 | 1763 | 1777 | 1790 | 1803 | 1817 | 1830 | 1843 | 1857 | 1870 | |
| 3250 | 51 1883 | 1897 | 1910 | 1923 | 1937 | 1950 | 1964 | 1977 | 1990 | 2004 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 3200" = 8° 53' 20" | | | | 3200" = 0° 53' 20" | | | S. 4, 685 | 557 | T. 610 | |
| | 32100 = 8 55 0 | | | | 3210 = 0 53 30 | | | | 557 | 610 | |
| | 32200 = 8 56 40 | | | | 3220 = 0 53 40 | | | | 557 | 610 | |
| | 32300 = 8 58 20 | | | | 3230 = 0 53 50 | | | | 557 | 610 | |
| | 32400 = 9 0 0 | | | | 3240 = 0 54 0 | | | | 557 | 611 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|---------------------|------|------|----------|------|--------|------|--------|
| 3250 | 51 1883 | 1897 | 1910 | 1923 | 1937 | 1950 | 1964 | 1977 | 1990 | 2004 | |
| 51 | 2017 | 2030 | 2044 | 2057 | 2070 | 2084 | 2097 | 2110 | 2124 | 2137 | |
| 52 | 2151 | 2164 | 2177 | 2191 | 2204 | 2217 | 2231 | 2244 | 2257 | 2271 | |
| 53 | 2284 | 2297 | 2311 | 2324 | 2337 | 2351 | 2364 | 2378 | 2391 | 2404 | |
| 54 | 2418 | 2431 | 2444 | 2458 | 2471 | 2484 | 2498 | 2511 | 2524 | 2538 | |
| 55 | 51 2551 | 2564 | 2578 | 2591 | 2604 | 2618 | 2631 | 2644 | 2658 | 2671 | |
| 56 | 2684 | 2698 | 2711 | 2724 | 2738 | 2751 | 2764 | 2778 | 2791 | 2804 | |
| 57 | 2818 | 2831 | 2844 | 2858 | 2871 | 2884 | 2898 | 2911 | 2924 | 2938 | |
| 58 | 2951 | 2964 | 2978 | 2991 | 3004 | 3018 | 3031 | 3044 | 3058 | 3071 | |
| 59 | 3084 | 3098 | 3111 | 3124 | 3138 | 3151 | 3164 | 3178 | 3191 | 3204 | |
| 3260 | 51 3218 | 3231 | 3244 | 3258 | 3271 | 3284 | 3298 | 3311 | 3324 | 3337 | |
| 61 | 3351 | 3364 | 3377 | 3391 | 3404 | 3417 | 3431 | 3444 | 3457 | 3471 | I 4 |
| 62 | 3484 | 3497 | 3511 | 3524 | 3537 | 3551 | 3564 | 3577 | 3590 | 3604 | 1 I.4 |
| 63 | 3617 | 3630 | 3644 | 3657 | 3670 | 3684 | 3697 | 3710 | 3724 | 3737 | 2 2.8 |
| 64 | 3750 | 3763 | 3777 | 3790 | 3803 | 3817 | 3830 | 3843 | 3857 | 3870 | 3 4.2 |
| 65 | 51 3883 | 3896 | 3910 | 3923 | 3936 | 3950 | 3963 | 3976 | 3990 | 4003 | 4 5.6 |
| 66 | 4016 | 4029 | 4043 | 4056 | 4069 | 4083 | 4096 | 4109 | 4123 | 4136 | 5 7.0 |
| 67 | 4149 | 4162 | 4176 | 4189 | 4202 | 4216 | 4229 | 4242 | 4255 | 4269 | 6 8.4 |
| 68 | 4282 | 4295 | 4309 | 4322 | 4335 | 4348 | 4362 | 4375 | 4388 | 4402 | 7 9.8 |
| 69 | 4415 | 4428 | 4441 | 4455 | 4468 | 4481 | 4495 | 4508 | 4521 | 4535 | 8 11.2 |
| 3270 | 51 4548 | 4561 | 4574 | 4588 | 4601 | 4614 | 4627 | 4641 | 4654 | 4667 | 9 12.6 |
| 71 | 4681 | 4694 | 4707 | 4720 | 4734 | 4747 | 4760 | 4773 | 4787 | 4800 | |
| 72 | 4813 | 4827 | 4840 | 4853 | 4866 | 4880 | 4893 | 4906 | 4919 | 4933 | |
| 73 | 4946 | 4959 | 4973 | 4986 | 4999 | 5012 | 5026 | 5039 | 5052 | 5065 | |
| 74 | 5079 | 5092 | 5105 | 5118 | 5132 | 5145 | 5158 | 5172 | 5185 | 5198 | |
| 75 | 51 5211 | 5225 | 5238 | 5251 | 5264 | 5278 | 5291 | 5304 | 5317 | 5331 | |
| 76 | 5344 | 5357 | 5370 | 5384 | 5397 | 5410 | 5423 | 5437 | 5450 | 5463 | |
| 77 | 5476 | 5490 | 5503 | 5516 | 5529 | 5543 | 5556 | 5569 | 5582 | 5596 | |
| 78 | 5609 | 5622 | 5635 | 5649 | 5662 | 5675 | 5688 | 5702 | 5715 | 5728 | |
| 79 | 5741 | 5755 | 5768 | 5781 | 5794 | 5808 | 5821 | 5834 | 5847 | 5861 | |
| 3280 | 51 5874 | 5887 | 5900 | 5914 | 5927 | 5940 | 5953 | 5967 | 5980 | 5993 | |
| 81 | 6006 | 6019 | 6033 | 6046 | 6059 | 6072 | 6086 | 6099 | 6112 | 6125 | I 3 |
| 82 | 6139 | 6152 | 6165 | 6178 | 6192 | 6205 | 6218 | 6231 | 6244 | 6258 | 1 I.3 |
| 83 | 6271 | 6284 | 6297 | 6311 | 6324 | 6337 | 6350 | 6363 | 6377 | 6390 | 2 2.6 |
| 84 | 6403 | 6416 | 6430 | 6443 | 6456 | 6469 | 6482 | 6496 | 6509 | 6522 | 3 3.9 |
| 85 | 51 6535 | 6549 | 6562 | 6575 | 6588 | 6601 | 6615 | 6628 | 6641 | 6654 | 4 5.2 |
| 86 | 6668 | 6681 | 6694 | 6707 | 6720 | 6734 | 6747 | 6760 | 6773 | 6786 | 5 6.5 |
| 87 | 6800 | 6813 | 6826 | 6839 | 6853 | 6866 | 6879 | 6892 | 6905 | 6919 | 6 7.8 |
| 88 | 6932 | 6945 | 6958 | 6971 | 6985 | 6998 | 7011 | 7024 | 7037 | 7051 | 7 9.1 |
| 89 | 7064 | 7077 | 7090 | 7103 | 7117 | 7130 | 7143 | 7156 | 7169 | 7183 | 8 10.4 |
| 3290 | 51 7196 | 7209 | 7222 | 7235 | 7249 | 7262 | 7275 | 7288 | 7301 | 7315 | 9 11.7 |
| 91 | 7328 | 7341 | 7354 | 7367 | 7381 | 7394 | 7407 | 7420 | 7433 | 7447 | |
| 92 | 7460 | 7473 | 7486 | 7499 | 7513 | 7526 | 7539 | 7552 | 7565 | 7579 | |
| 93 | 7592 | 7605 | 7618 | 7631 | 7644 | 7658 | 7671 | 7684 | 7697 | 7710 | |
| 94 | 7724 | 7737 | 7750 | 7763 | 7776 | 7790 | 7803 | 7816 | 7829 | 7842 | |
| 95 | 51 7855 | 7869 | 7882 | 7895 | 7908 | 7921 | 7934 | 7948 | 7961 | 7974 | |
| 96 | 7987 | 8000 | 8014 | 8027 | 8040 | 8053 | 8066 | 8079 | 8093 | 8106 | |
| 97 | 8119 | 8132 | 8145 | 8158 | 8172 | 8185 | 8198 | 8211 | 8224 | 8237 | |
| 98 | 8251 | 8264 | 8277 | 8290 | 8303 | 8316 | 8330 | 8343 | 8356 | 8369 | |
| 99 | 8382 | 8395 | 8409 | 8422 | 8435 | 8448 | 8461 | 8474 | 8488 | 8501 | |
| 3300 | 51 8514 | 8527 | 8540 | 8553 | 8567 | 8580 | 8593 | 8606 | 8619 | 8632 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 32500" = 9° 1' 40" | | | 32500" = 0° 54' 10" | | | S. 4,685 | 557 | T. 611 | | |
| | 32600 = 9 3 20 | | | 3260 = 0 54 20 | | | | 557 | 611 | | |
| | 32700 = 9 5 0 | | | 3270 = 0 54 30 | | | | 557 | 611 | | |
| | 32800 = 9 6 40 | | | 3280 = 0 54 40 | | | | 557 | 611 | | |
| | 32900 = 9 8 20 | | | 3290 = 0 54 50 | | | | 556 | 612 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|-------------------|------|------|----------|------|--------|--------|
| 3300 | 51 8514 | 8527 | 8540 | 8553 | 8567 | 8580 | 8593 | 8606 | 8619 | 8632 | |
| 01 | 8646 | 8659 | 8672 | 8685 | 8698 | 8711 | 8724 | 8738 | 8751 | 8764 | |
| 02 | 8777 | 8790 | 8803 | 8817 | 8830 | 8843 | 8856 | 8869 | 8882 | 8895 | |
| 03 | 8909 | 8922 | 8935 | 8948 | 8961 | 8974 | 8987 | 9001 | 9014 | 9027 | |
| 04 | 9040 | 9053 | 9066 | 9079 | 9093 | 9106 | 9119 | 9132 | 9145 | 9158 | |
| 05 | 51 9171 | 9185 | 9198 | 9211 | 9224 | 9237 | 9250 | 9263 | 9277 | 9290 | |
| 06 | 9303 | 9316 | 9329 | 9342 | 9355 | 9369 | 9382 | 9395 | 9408 | 9421 | |
| 07 | 9434 | 9447 | 9460 | 9474 | 9487 | 9500 | 9513 | 9526 | 9539 | 9552 | |
| 08 | 9566 | 9579 | 9592 | 9605 | 9618 | 9631 | 9644 | 9657 | 9671 | 9684 | |
| 09 | 9697 | 9710 | 9723 | 9736 | 9749 | 9762 | 9776 | 9789 | 9802 | 9815 | |
| 3310 | 51 9828 | 9841 | 9854 | 9867 | 9880 | 9894 | 9907 | 9920 | 9933 | 9946 | |
| 11 | 9959 | 9972 | 9985 | 9999 | 0012 | 0025 | 0038 | 0051 | 0064 | 0077 | 14 |
| 12 | 52 0090 | 0103 | 0117 | 0130 | 0143 | 0156 | 0169 | 0182 | 0195 | 0208 | 1 1.4 |
| 13 | 0221 | 0235 | 0248 | 0261 | 0274 | 0287 | 0300 | 0313 | 0326 | 0339 | 2 2.8 |
| 14 | 0353 | 0366 | 0379 | 0392 | 0405 | 0418 | 0431 | 0444 | 0457 | 0470 | 3 4.2 |
| 15 | 52 0484 | 0497 | 0510 | 0523 | 0536 | 0549 | 0562 | 0575 | 0588 | 0601 | 4 5.6 |
| 16 | 0615 | 0628 | 0641 | 0654 | 0667 | 0680 | 0693 | 0706 | 0719 | 0732 | 5 7.0 |
| 17 | 0745 | 0759 | 0772 | 0785 | 0798 | 0811 | 0824 | 0837 | 0850 | 0863 | 6 8.4 |
| 18 | 0876 | 0889 | 0903 | 0916 | 0929 | 0942 | 0955 | 0968 | 0981 | 0994 | 7 9.8 |
| 19 | 1007 | 1020 | 1033 | 1047 | 1060 | 1073 | 1086 | 1099 | 1112 | 1125 | 8 11.2 |
| 3320 | 52 1138 | 1151 | 1164 | 1177 | 1190 | 1203 | 1217 | 1230 | 1243 | 1256 | 9 12.6 |
| 21 | 1269 | 1282 | 1295 | 1308 | 1321 | 1334 | 1347 | 1360 | 1373 | 1387 | |
| 22 | 1400 | 1413 | 1426 | 1439 | 1452 | 1465 | 1478 | 1491 | 1504 | 1517 | |
| 23 | 1530 | 1543 | 1556 | 1570 | 1583 | 1596 | 1609 | 1622 | 1635 | 1648 | |
| 24 | 1661 | 1674 | 1687 | 1700 | 1713 | 1726 | 1739 | 1752 | 1766 | 1779 | |
| 25 | 52 1792 | 1805 | 1818 | 1831 | 1844 | 1857 | 1870 | 1883 | 1896 | 1909 | |
| 26 | 1922 | 1935 | 1948 | 1961 | 1974 | 1988 | 2001 | 2014 | 2027 | 2040 | |
| 27 | 2053 | 2066 | 2079 | 2092 | 2105 | 2118 | 2131 | 2144 | 2157 | 2170 | |
| 28 | 2183 | 2196 | 2209 | 2222 | 2236 | 2249 | 2262 | 2275 | 2288 | 2301 | |
| 29 | 2314 | 2327 | 2340 | 2353 | 2366 | 2379 | 2392 | 2405 | 2418 | 2431 | |
| 3330 | 52 2444 | 2457 | 2470 | 2483 | 2496 | 2509 | 2522 | 2536 | 2549 | 2562 | |
| 31 | 2575 | 2588 | 2601 | 2614 | 2627 | 2640 | 2653 | 2666 | 2679 | 2692 | 13 |
| 32 | 2705 | 2718 | 2731 | 2744 | 2757 | 2770 | 2783 | 2796 | 2809 | 2822 | 1 1.3 |
| 33 | 2835 | 2848 | 2861 | 2874 | 2887 | 2900 | 2913 | 2927 | 2940 | 2953 | 2 2.6 |
| 34 | 2966 | 2979 | 2992 | 3005 | 3018 | 3031 | 3044 | 3057 | 3070 | 3083 | 3 3.9 |
| 35 | 52 3096 | 3109 | 3122 | 3135 | 3148 | 3161 | 3174 | 3187 | 3200 | 3213 | 4 5.2 |
| 36 | 3226 | 3239 | 3252 | 3265 | 3278 | 3291 | 3304 | 3317 | 3330 | 3343 | 5 6.5 |
| 37 | 3356 | 3369 | 3382 | 3395 | 3408 | 3421 | 3434 | 3447 | 3460 | 3473 | 6 7.8 |
| 38 | 3486 | 3499 | 3512 | 3525 | 3538 | 3551 | 3564 | 3577 | 3590 | 3603 | 7 9.1 |
| 39 | 3616 | 3629 | 3642 | 3655 | 3668 | 3681 | 3694 | 3707 | 3720 | 3733 | 8 10.4 |
| 3340 | 52 3746 | 3759 | 3772 | 3785 | 3798 | 3811 | 3824 | 3837 | 3850 | 3863 | 9 11.7 |
| 41 | 3876 | 3889 | 3902 | 3915 | 3928 | 3941 | 3954 | 3967 | 3980 | 3993 | |
| 42 | 4006 | 4019 | 4032 | 4045 | 4058 | 4071 | 4084 | 4097 | 4110 | 4123 | |
| 43 | 4136 | 4149 | 4162 | 4175 | 4188 | 4201 | 4214 | 4227 | 4240 | 4253 | |
| 44 | 4266 | 4279 | 4292 | 4305 | 4318 | 4331 | 4344 | 4357 | 4370 | 4383 | |
| 45 | 52 4396 | 4409 | 4422 | 4435 | 4448 | 4461 | 4474 | 4487 | 4500 | 4513 | |
| 46 | 4526 | 4539 | 4552 | 4565 | 4578 | 4591 | 4604 | 4617 | 4630 | 4643 | |
| 47 | 4656 | 4669 | 4682 | 4695 | 4708 | 4721 | 4734 | 4747 | 4760 | 4772 | |
| 48 | 4785 | 4798 | 4811 | 4824 | 4837 | 4850 | 4863 | 4876 | 4889 | 4902 | |
| 49 | 4915 | 4928 | 4941 | 4954 | 4967 | 4980 | 4993 | 5006 | 5019 | 5032 | |
| 3350 | 52 5045 | 5058 | 5071 | 5084 | 5097 | 5110 | 5123 | 5136 | 5149 | 5161 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 33000" = 9° 10' 0" | | | | 3300" = 0° 55' 0" | | | S. 4,685 | 556 | T. 612 | |
| | 33100 = 9 11 40 | | | | 3310 = 0 55 10 | | | | 556 | 612 | |
| | 33200 = 9 13 20 | | | | 3320 = 0 55 20 | | | | 556 | 612 | |
| | 33300 = 9 15 0 | | | | 3330 = 0 55 30 | | | | 556 | 613 | |
| | 33400 = 9 16 40 | | | | 3340 = 0 55 40 | | | | 556 | 613 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------|------|------|------|------|--------------------|------|------|------|------|---------------------|
| 3350 | 52 5045 | 5058 | 5071 | 5084 | 5097 | 5110 | 5123 | 5136 | 5149 | 5161 | |
| 51 | 5174 | 5187 | 5200 | 5213 | 5226 | 5239 | 5252 | 5265 | 5278 | 5291 | |
| 52 | 5304 | 5317 | 5330 | 5343 | 5356 | 5369 | 5382 | 5395 | 5408 | 5421 | |
| 53 | 5434 | 5447 | 5459 | 5472 | 5485 | 5498 | 5511 | 5524 | 5537 | 5550 | |
| 54 | 5563 | 5576 | 5589 | 5602 | 5615 | 5628 | 5641 | 5654 | 5667 | 5680 | |
| 55 | 5693 | 5705 | 5718 | 5731 | 5744 | 5757 | 5770 | 5783 | 5796 | 5809 | |
| 56 | 5822 | 5835 | 5848 | 5861 | 5874 | 5887 | 5900 | 5913 | 5925 | 5938 | |
| 57 | 5951 | 5964 | 5977 | 5990 | 6003 | 6016 | 6029 | 6042 | 6055 | 6068 | |
| 58 | 6081 | 6094 | 6107 | 6119 | 6132 | 6145 | 6158 | 6171 | 6184 | 6197 | |
| 59 | 6210 | 6223 | 6236 | 6249 | 6262 | 6275 | 6288 | 6300 | 6313 | 6326 | |
| 3360 | 52 6339 | 6352 | 6365 | 6378 | 6391 | 6404 | 6417 | 6430 | 6443 | 6456 | |
| 61 | 6469 | 6481 | 6494 | 6507 | 6520 | 6533 | 6546 | 6559 | 6572 | 6585 | |
| 62 | 6598 | 6611 | 6624 | 6636 | 6649 | 6662 | 6675 | 6688 | 6701 | 6714 | I 3 |
| 63 | 6727 | 6740 | 6753 | 6766 | 6779 | 6791 | 6804 | 6817 | 6830 | 6843 | 1 1.3 |
| 64 | 6856 | 6869 | 6882 | 6895 | 6908 | 6921 | 6933 | 6946 | 6959 | 6972 | 2 2.6 |
| 65 | 52 6985 | 6998 | 7011 | 7024 | 7037 | 7050 | 7062 | 7075 | 7088 | 7101 | 3 3.9 |
| 66 | 7114 | 7127 | 7140 | 7153 | 7166 | 7179 | 7192 | 7204 | 7217 | 7230 | 4 5.2 |
| 67 | 7243 | 7256 | 7269 | 7282 | 7295 | 7308 | 7321 | 7333 | 7346 | 7359 | 5 6.5 |
| 68 | 7372 | 7385 | 7398 | 7411 | 7424 | 7437 | 7449 | 7462 | 7475 | 7488 | 6 7.8 |
| 69 | 7501 | 7514 | 7527 | 7540 | 7553 | 7565 | 7578 | 7591 | 7604 | 7617 | 7 9.1 |
| 3370 | 52 7630 | 7643 | 7656 | 7669 | 7681 | 7694 | 7707 | 7720 | 7733 | 7746 | 8 10.4 |
| 71 | 7759 | 7772 | 7785 | 7797 | 7810 | 7823 | 7836 | 7849 | 7862 | 7875 | 9 11.7 |
| 72 | 7888 | 7900 | 7913 | 7926 | 7939 | 7952 | 7965 | 7978 | 7991 | 8003 | |
| 73 | 8016 | 8029 | 8042 | 8055 | 8068 | 8081 | 8094 | 8106 | 8119 | 8132 | |
| 74 | 8145 | 8158 | 8171 | 8184 | 8197 | 8209 | 8222 | 8235 | 8248 | 8261 | |
| 75 | 52 8274 | 8287 | 8300 | 8312 | 8325 | 8338 | 8351 | 8364 | 8377 | 8390 | |
| 76 | 8402 | 8415 | 8428 | 8441 | 8454 | 8467 | 8480 | 8492 | 8505 | 8518 | |
| 77 | 8531 | 8544 | 8557 | 8570 | 8582 | 8595 | 8608 | 8621 | 8634 | 8647 | |
| 78 | 8660 | 8673 | 8685 | 8698 | 8711 | 8724 | 8737 | 8750 | 8762 | 8775 | |
| 79 | 8788 | 8801 | 8814 | 8827 | 8840 | 8852 | 8865 | 8878 | 8891 | 8904 | |
| 3380 | 52 8917 | 8930 | 8942 | 8955 | 8968 | 8981 | 8994 | 9007 | 9019 | 9032 | |
| 81 | 9045 | 9058 | 9071 | 9084 | 9097 | 9109 | 9122 | 9135 | 9148 | 9161 | I 2 |
| 82 | 9174 | 9186 | 9199 | 9212 | 9225 | 9238 | 9251 | 9263 | 9276 | 9289 | 1 1.2 |
| 83 | 9302 | 9315 | 9328 | 9341 | 9353 | 9366 | 9379 | 9392 | 9405 | 9418 | 2 2.4 |
| 84 | 9430 | 9443 | 9456 | 9469 | 9482 | 9495 | 9507 | 9520 | 9533 | 9546 | 3 3.6 |
| 85 | 52 9559 | 9572 | 9584 | 9597 | 9610 | 9623 | 9636 | 9648 | 9661 | 9674 | 4 4.8 |
| 86 | 9687 | 9700 | 9713 | 9725 | 9738 | 9751 | 9764 | 9777 | 9790 | 9802 | 5 6.0 |
| 87 | 9815 | 9828 | 9841 | 9854 | 9866 | 9879 | 9892 | 9905 | 9918 | 9931 | 6 7.2 |
| 88 | 9943 | 9956 | 9969 | 9982 | 9995 | 1007 | 1020 | 1033 | 1046 | 1059 | 7 8.4 |
| 89 | 53 0072 | 0084 | 0097 | 0110 | 0123 | 0136 | 0148 | 0161 | 0174 | 0187 | 8 9.6 |
| 3390 | 53 0200 | 0213 | 0225 | 0238 | 0251 | 0264 | 0277 | 0289 | 0302 | 0315 | 9 10.8 |
| 91 | 0328 | 0341 | 0353 | 0366 | 0379 | 0392 | 0405 | 0417 | 0430 | 0443 | |
| 92 | 0456 | 0469 | 0481 | 0494 | 0507 | 0520 | 0533 | 0545 | 0558 | 0571 | |
| 93 | 0584 | 0597 | 0609 | 0622 | 0635 | 0648 | 0661 | 0673 | 0686 | 0699 | |
| 94 | 0712 | 0725 | 0737 | 0750 | 0763 | 0776 | 0789 | 0801 | 0814 | 0827 | |
| 95 | 53 0840 | 0853 | 0865 | 0878 | 0891 | 0904 | 0917 | 0929 | 0942 | 0955 | |
| 96 | 0968 | 0980 | 0993 | 1006 | 1019 | 1032 | 1044 | 1057 | 1070 | 1083 | |
| 97 | 1096 | 1108 | 1121 | 1134 | 1147 | 1159 | 1172 | 1185 | 1198 | 1211 | |
| 98 | 1223 | 1236 | 1249 | 1262 | 1274 | 1287 | 1300 | 1313 | 1326 | 1338 | |
| 99 | 1351 | 1364 | 1377 | 1389 | 1402 | 1415 | 1428 | 1441 | 1453 | 1466 | |
| 3400 | 53 1479 | 1492 | 1504 | 1517 | 1530 | 1543 | 1556 | 1568 | 1581 | 1594 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 3350 | = 9° 18' 20" | | | | | 3350" = 0° 55' 50" | | | | | S. 4,685 556 T. 613 |
| 3360 | = 9 20 0 | | | | | 3360 = 0 56 0 | | | | | 556 613 |
| 3370 | = 9 21 40 | | | | | 3370 = 0 56 10 | | | | | 556 614 |
| 3380 | = 9 23 20 | | | | | 3380 = 0 56 20 | | | | | 555 614 |
| 3390 | = 9 25 0 | | | | | 3390 = 0 56 30 | | | | | 555 614 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|---------------------|------|------|------|----------|------|--------|
| 3400 | 53 1479 | 1492 | 1504 | 1517 | 1530 | 1543 | 1556 | 1568 | 1581 | 1594 | |
| 01 | 1607 | 1619 | 1632 | 1645 | 1658 | 1670 | 1683 | 1696 | 1709 | 1722 | |
| 02 | 1734 | 1747 | 1760 | 1773 | 1785 | 1798 | 1811 | 1824 | 1836 | 1849 | |
| 03 | 1862 | 1875 | 1887 | 1900 | 1913 | 1926 | 1939 | 1951 | 1964 | 1977 | |
| 04 | 1990 | 2002 | 2015 | 2028 | 2041 | 2053 | 2066 | 2079 | 2092 | 2104 | |
| 05 | 53 2117 | 2130 | 2143 | 2155 | 2168 | 2181 | 2194 | 2206 | 2219 | 2232 | |
| 06 | 2245 | 2257 | 2270 | 2283 | 2296 | 2308 | 2321 | 2334 | 2347 | 2359 | |
| 07 | 2372 | 2385 | 2398 | 2410 | 2423 | 2436 | 2449 | 2461 | 2474 | 2487 | |
| 08 | 2500 | 2512 | 2525 | 2538 | 2551 | 2563 | 2576 | 2589 | 2602 | 2614 | |
| 09 | 2627 | 2640 | 2652 | 2665 | 2678 | 2691 | 2703 | 2716 | 2729 | 2742 | |
| 3410 | 53 2754 | 2767 | 2780 | 2793 | 2805 | 2818 | 2831 | 2844 | 2856 | 2869 | |
| 11 | 2882 | 2894 | 2907 | 2920 | 2933 | 2945 | 2958 | 2971 | 2984 | 2996 | |
| 12 | 3009 | 3022 | 3034 | 3047 | 3060 | 3073 | 3085 | 3098 | 3111 | 3124 | |
| 13 | 3136 | 3149 | 3162 | 3174 | 3187 | 3200 | 3213 | 3225 | 3238 | 3251 | |
| 14 | 3264 | 3276 | 3289 | 3302 | 3314 | 3327 | 3340 | 3353 | 3365 | 3378 | |
| 15 | 53 3391 | 3403 | 3416 | 3429 | 3442 | 3454 | 3467 | 3480 | 3492 | 3505 | |
| 16 | 3518 | 3531 | 3543 | 3556 | 3569 | 3581 | 3594 | 3607 | 3620 | 3632 | |
| 17 | 3645 | 3658 | 3670 | 3683 | 3696 | 3709 | 3721 | 3734 | 3747 | 3759 | |
| 18 | 3772 | 3785 | 3797 | 3810 | 3823 | 3836 | 3848 | 3861 | 3874 | 3886 | |
| 19 | 3899 | 3912 | 3925 | 3937 | 3950 | 3963 | 3975 | 3988 | 4001 | 4013 | |
| 3420 | 53 4026 | 4039 | 4052 | 4064 | 4077 | 4090 | 4102 | 4115 | 4128 | 4140 | |
| 21 | 4153 | 4166 | 4178 | 4191 | 4204 | 4217 | 4229 | 4242 | 4255 | 4267 | |
| 22 | 4280 | 4293 | 4305 | 4318 | 4331 | 4343 | 4356 | 4369 | 4382 | 4394 | |
| 23 | 4407 | 4420 | 4432 | 4445 | 4458 | 4470 | 4483 | 4496 | 4508 | 4521 | |
| 24 | 4534 | 4546 | 4559 | 4572 | 4584 | 4597 | 4610 | 4623 | 4635 | 4648 | |
| 25 | 53 4661 | 4673 | 4686 | 4699 | 4711 | 4724 | 4737 | 4749 | 4762 | 4775 | |
| 26 | 4787 | 4800 | 4813 | 4825 | 4838 | 4851 | 4863 | 4876 | 4889 | 4901 | |
| 27 | 4914 | 4927 | 4939 | 4952 | 4965 | 4977 | 4990 | 5003 | 5015 | 5028 | |
| 28 | 5041 | 5053 | 5066 | 5079 | 5091 | 5104 | 5117 | 5129 | 5142 | 5155 | |
| 29 | 5167 | 5180 | 5193 | 5205 | 5218 | 5231 | 5243 | 5256 | 5269 | 5281 | |
| 3430 | 53 5294 | 5307 | 5319 | 5332 | 5345 | 5357 | 5370 | 5383 | 5395 | 5408 | |
| 31 | 5421 | 5433 | 5446 | 5459 | 5471 | 5484 | 5497 | 5509 | 5522 | 5535 | |
| 32 | 5547 | 5560 | 5573 | 5585 | 5598 | 5611 | 5623 | 5636 | 5649 | 5661 | |
| 33 | 5674 | 5686 | 5699 | 5712 | 5724 | 5737 | 5750 | 5762 | 5775 | 5788 | |
| 34 | 5800 | 5813 | 5826 | 5838 | 5851 | 5864 | 5876 | 5889 | 5901 | 5914 | |
| 35 | 53 5927 | 5939 | 5952 | 5965 | 5977 | 5990 | 6003 | 6015 | 6028 | 6041 | |
| 36 | 6053 | 6066 | 6078 | 6091 | 6104 | 6116 | 6129 | 6142 | 6155 | 6167 | |
| 37 | 6180 | 6192 | 6205 | 6217 | 6230 | 6243 | 6255 | 6268 | 6281 | 6293 | |
| 38 | 6306 | 6319 | 6331 | 6344 | 6356 | 6369 | 6382 | 6394 | 6407 | 6420 | |
| 39 | 6432 | 6445 | 6457 | 6470 | 6483 | 6495 | 6508 | 6521 | 6533 | 6546 | |
| 3440 | 53 6558 | 6571 | 6584 | 6596 | 6609 | 6622 | 6634 | 6647 | 6659 | 6672 | |
| 41 | 6685 | 6697 | 6710 | 6723 | 6735 | 6748 | 6760 | 6773 | 6786 | 6798 | |
| 42 | 6811 | 6823 | 6836 | 6849 | 6861 | 6874 | 6887 | 6899 | 6912 | 6924 | |
| 43 | 6937 | 6950 | 6962 | 6975 | 6987 | 7000 | 7013 | 7025 | 7038 | 7051 | |
| 44 | 7063 | 7076 | 7088 | 7101 | 7114 | 7126 | 7139 | 7151 | 7164 | 7177 | |
| 45 | 53 7189 | 7202 | 7214 | 7227 | 7240 | 7252 | 7265 | 7277 | 7290 | 7303 | |
| 46 | 7315 | 7328 | 7340 | 7353 | 7366 | 7378 | 7391 | 7403 | 7416 | 7429 | |
| 47 | 7441 | 7454 | 7466 | 7479 | 7492 | 7504 | 7517 | 7529 | 7542 | 7555 | |
| 48 | 7567 | 7580 | 7592 | 7605 | 7618 | 7630 | 7643 | 7655 | 7668 | 7681 | |
| 49 | 7693 | 7706 | 7718 | 7731 | 7744 | 7756 | 7769 | 7781 | 7794 | 7807 | |
| 3450 | 53 7819 | 7832 | 7844 | 7857 | 7869 | 7882 | 7895 | 7907 | 7920 | 7932 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 34000' = 9° 26' 40" | | | | 34000' = 9° 26' 40" | | | | S. 4,685 | 555 | T. 614 |
| | 34100 = 9 28 20 | | | | 34100 = 9 28 20 | | | | 555 | | 614 |
| | 34200 = 9 30 0 | | | | 34200 = 9 30 0 | | | | 555 | | 615 |
| | 34300 = 9 31 40 | | | | 34300 = 9 31 40 | | | | 555 | | 615 |
| | 34400 = 9 33 20 | | | | 34400 = 9 33 20 | | | | 555 | | 615 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|----------|------|------|------|------|--------|----------|------|----------|------|--------|
| 3450 | 53 7819 | 7832 | 7844 | 7857 | 7869 | 7882 | 7895 | 7907 | 7920 | 7932 | |
| 51 | 7945 | 7958 | 7970 | 7983 | 7995 | 8008 | 8020 | 8033 | 8046 | 8058 | |
| 52 | 8071 | 8083 | 8096 | 8109 | 8121 | 8134 | 8146 | 8159 | 8171 | 8184 | |
| 53 | 8197 | 8209 | 8222 | 8234 | 8247 | 8259 | 8272 | 8285 | 8297 | 8310 | |
| 54 | 8322 | 8335 | 8347 | 8360 | 8373 | 8385 | 8398 | 8410 | 8423 | 8435 | |
| 55 | 53 8448 | 8461 | 8473 | 8486 | 8498 | 8511 | 8523 | 8536 | 8549 | 8561 | |
| 56 | 8574 | 8586 | 8599 | 8611 | 8624 | 8637 | 8649 | 8662 | 8674 | 8687 | |
| 57 | 8699 | 8712 | 8725 | 8737 | 8750 | 8762 | 8775 | 8787 | 8800 | 8812 | |
| 58 | 8825 | 8838 | 8850 | 8863 | 8875 | 8888 | 8900 | 8913 | 8925 | 8938 | |
| 59 | 8951 | 8963 | 8976 | 8988 | 9001 | 9013 | 9026 | 9038 | 9051 | 9064 | |
| 3460 | 53 9076 | 9089 | 9101 | 9114 | 9126 | 9139 | 9151 | 9164 | 9177 | 9189 | |
| 61 | 9202 | 9214 | 9227 | 9239 | 9252 | 9264 | 9277 | 9289 | 9302 | 9315 | I 3 |
| 62 | 9327 | 9340 | 9352 | 9365 | 9377 | 9390 | 9402 | 9415 | 9427 | 9440 | 1 I. 3 |
| 63 | 9452 | 9465 | 9478 | 9490 | 9503 | 9515 | 9528 | 9540 | 9553 | 9565 | 2 2.6 |
| 64 | 9578 | 9590 | 9603 | 9615 | 9628 | 9641 | 9653 | 9666 | 9678 | 9691 | 3 3.9 |
| 65 | 53 9703 | 9716 | 9728 | 9741 | 9753 | 9766 | 9778 | 9791 | 9803 | 9816 | 4 5.2 |
| 66 | 9829 | 9841 | 9854 | 9866 | 9879 | 9891 | 9904 | 9916 | 9929 | 9941 | 5 6.5 |
| 67 | 9954 | 9966 | 9979 | 9991 | 1004 | 1016 | 1029 | 1042 | 1054 | 1067 | 6 7.8 |
| 68 | 54 0079 | 0092 | 0104 | 0117 | 0129 | 0142 | 0154 | 0167 | 0179 | 0192 | 7 9.1 |
| 69 | 0204 | 0217 | 0229 | 0242 | 0254 | 0267 | 0279 | 0292 | 0304 | 0317 | 8 10.4 |
| 3470 | 54 0329 | 0342 | 0355 | 0367 | 0380 | 0392 | 0405 | 0417 | 0430 | 0442 | 9 11.7 |
| 71 | 0455 | 0467 | 0480 | 0492 | 0505 | 0517 | 0530 | 0542 | 0555 | 0567 | |
| 72 | 0580 | 0592 | 0605 | 0617 | 0630 | 0642 | 0655 | 0667 | 0680 | 0692 | |
| 73 | 0705 | 0717 | 0730 | 0742 | 0755 | 0767 | 0780 | 0792 | 0805 | 0817 | |
| 74 | 0830 | 0842 | 0855 | 0867 | 0880 | 0892 | 0905 | 0917 | 0930 | 0942 | |
| 75 | 54 0955 | 0967 | 0980 | 0992 | 1005 | 1017 | 1030 | 1042 | 1055 | 1067 | |
| 76 | 1080 | 1092 | 1105 | 1117 | 1130 | 1142 | 1155 | 1167 | 1180 | 1192 | |
| 77 | 1205 | 1217 | 1230 | 1242 | 1255 | 1267 | 1280 | 1292 | 1305 | 1317 | |
| 78 | 1330 | 1342 | 1355 | 1367 | 1380 | 1392 | 1404 | 1417 | 1429 | 1442 | |
| 79 | 1454 | 1467 | 1479 | 1492 | 1504 | 1517 | 1529 | 1542 | 1554 | 1567 | |
| 3480 | 54 1579 | 1592 | 1604 | 1617 | 1629 | 1642 | 1654 | 1667 | 1679 | 1692 | |
| 81 | 1704 | 1716 | 1729 | 1741 | 1754 | 1766 | 1779 | 1791 | 1804 | 1816 | I 2 |
| 82 | 1829 | 1841 | 1854 | 1866 | 1879 | 1891 | 1904 | 1916 | 1929 | 1941 | 1 1.2 |
| 83 | 1953 | 1966 | 1978 | 1991 | 2003 | 2016 | 2028 | 2041 | 2053 | 2066 | 2 2.4 |
| 84 | 2078 | 2091 | 2103 | 2116 | 2128 | 2140 | 2153 | 2165 | 2178 | 2190 | 3 3.6 |
| 85 | 54 2203 | 2215 | 2228 | 2240 | 2253 | 2265 | 2278 | 2290 | 2302 | 2315 | 4 4.8 |
| 86 | 2327 | 2340 | 2352 | 2365 | 2377 | 2390 | 2402 | 2415 | 2427 | 2439 | 5 6.0 |
| 87 | 2452 | 2464 | 2477 | 2489 | 2502 | 2514 | 2527 | 2539 | 2552 | 2564 | 6 7.2 |
| 88 | 2576 | 2589 | 2601 | 2614 | 2626 | 2639 | 2651 | 2664 | 2676 | 2689 | 7 8.4 |
| 89 | 2701 | 2713 | 2726 | 2738 | 2751 | 2763 | 2776 | 2788 | 2801 | 2813 | 8 9.6 |
| 3490 | 54 2825 | 2838 | 2850 | 2863 | 2875 | 2888 | 2900 | 2913 | 2925 | 2937 | 9 10.8 |
| 91 | 2950 | 2962 | 2975 | 2987 | 3000 | 3012 | 3024 | 3037 | 3049 | 3062 | |
| 92 | 3074 | 3087 | 3099 | 3112 | 3124 | 3136 | 3149 | 3161 | 3174 | 3186 | |
| 93 | 3199 | 3211 | 3223 | 3236 | 3248 | 3261 | 3273 | 3286 | 3298 | 3310 | |
| 94 | 3323 | 3335 | 3348 | 3360 | 3373 | 3385 | 3397 | 3410 | 3422 | 3435 | |
| 95 | 54 3447 | 3460 | 3472 | 3484 | 3497 | 3509 | 3522 | 3534 | 3547 | 3559 | |
| 96 | 3571 | 3584 | 3596 | 3609 | 3621 | 3634 | 3646 | 3658 | 3671 | 3683 | |
| 97 | 3696 | 3708 | 3720 | 3733 | 3745 | 3758 | 3770 | 3783 | 3795 | 3807 | |
| 98 | 3820 | 3832 | 3845 | 3857 | 3869 | 3882 | 3894 | 3907 | 3919 | 3932 | |
| 99 | 3944 | 3956 | 3969 | 3981 | 3994 | 4006 | 4018 | 4031 | 4043 | 4056 | |
| 3500 | 54 4068 | 4080 | 4093 | 4105 | 4118 | 4130 | 4142 | 4155 | 4167 | 4180 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 34500" | = 9° 35' | 0" | | | | 34500" | = 0° 57' | 30" | S. 4.685 | 555 | T. 615 |
| 34600" | = 9° 36' | 40" | | | | 34600" | = 0° 57' | 40" | | 554 | 616 |
| 34700" | = 9° 38' | 20" | | | | 34700" | = 0° 57' | 50" | | 554 | 616 |
| 34800" | = 9° 40' | 0" | | | | 34800" | = 0° 58' | 0" | | 554 | 616 |
| 34900" | = 9° 41' | 40" | | | | 34900" | = 0° 58' | 10" | | 554 | 616 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|-------|-------|---------------------|-------|-------|----------|-------|--------|--------|
| 3500 | 54 4068 | 4080 | 4093 | 4105 | 4118 | 4130 | 4142 | 4155 | 4167 | 4180 | |
| 01 | 4192 | 4205 | 4217 | 4229 | 4242 | 4254 | 4267 | 4279 | 4291 | 4304 | |
| 02 | 4316 | 4329 | 4341 | 4353 | 4366 | 4378 | 4391 | 4403 | 4415 | 4428 | |
| 03 | 4440 | 4453 | 4465 | 4477 | 4490 | 4502 | 4515 | 4527 | 4539 | 4552 | |
| 04 | 4564 | 4576 | 4589 | 4601 | 4614 | 4626 | 4638 | 4651 | 4663 | 4676 | |
| 05 | 4688 | 4700 | 4713 | 4725 | 4738 | 4750 | 4762 | 4775 | 4787 | 4800 | |
| 06 | 4812 | 4824 | 4837 | 4849 | 4861 | 4874 | 4886 | 4899 | 4911 | 4923 | |
| 07 | 4936 | 4948 | 4961 | 4973 | 4985 | 4998 | 5010 | 5022 | 5035 | 5047 | |
| 08 | 5060 | 5072 | 5084 | 5097 | 5109 | 5121 | 5134 | 5146 | 5159 | 5171 | |
| 09 | 5183 | 5196 | 5208 | 5220 | 5233 | 5245 | 5258 | 5270 | 5282 | 5295 | |
| 3510 | 54 5307 | 5319 | 5332 | 5344 | 5357 | 5369 | 5381 | 5394 | 5406 | 5418 | |
| 11 | 5431 | 5443 | 5456 | 5468 | 5480 | 5493 | 5505 | 5517 | 5530 | 5542 | 13 |
| 12 | 5555 | 5567 | 5579 | 5592 | 5604 | 5616 | 5629 | 5641 | 5653 | 5666 | 1 1.3 |
| 13 | 5678 | 5691 | 5703 | 5715 | 5728 | 5740 | 5752 | 5765 | 5777 | 5789 | 2 2.6 |
| 14 | 5802 | 5814 | 5826 | 5839 | 5851 | 5864 | 5876 | 5888 | 5901 | 5913 | 3 3.9 |
| 15 | 5925 | 5938 | 5950 | 5962 | 5975 | 5987 | 5999 | 6012 | 6024 | 6037 | 4 5.2 |
| 16 | 6049 | 6061 | 6074 | 6086 | 6098 | 6111 | 6123 | 6135 | 6148 | 6160 | 5 6.5 |
| 17 | 6172 | 6185 | 6197 | 6209 | 6222 | 6234 | 6246 | 6259 | 6271 | 6283 | 6 7.8 |
| 18 | 6296 | 6308 | 6321 | 6333 | 6345 | 6358 | 6370 | 6382 | 6395 | 6407 | 7 9.1 |
| 19 | 6419 | 6432 | 6444 | 6456 | 6469 | 6481 | 6493 | 6506 | 6518 | 6530 | 8 10.4 |
| 3520 | 54 6543 | 6555 | 6567 | 6580 | 6592 | 6604 | 6617 | 6629 | 6641 | 6654 | 9 11.7 |
| 21 | 6666 | 6678 | 6691 | 6703 | 6715 | 6728 | 6740 | 6752 | 6765 | 6777 | |
| 22 | 6789 | 6802 | 6814 | 6826 | 6839 | 6851 | 6863 | 6876 | 6888 | 6900 | |
| 23 | 6913 | 6925 | 6937 | 6950 | 6962 | 6974 | 6987 | 6999 | 7011 | 7024 | |
| 24 | 7036 | 7048 | 7061 | 7073 | 7085 | 7098 | 7110 | 7122 | 7134 | 7147 | |
| 25 | 54 7159 | 7171 | 7184 | 7196 | 7208 | 7221 | 7233 | 7245 | 7258 | 7270 | |
| 26 | 7282 | 7295 | 7307 | 7319 | 7332 | 7344 | 7356 | 7369 | 7381 | 7393 | |
| 27 | 7405 | 7418 | 7430 | 7442 | 7455 | 7467 | 7479 | 7492 | 7504 | 7516 | |
| 28 | 7529 | 7541 | 7553 | 7566 | 7578 | 7590 | 7602 | 7615 | 7627 | 7639 | |
| 29 | 7652 | 7664 | 7676 | 7689 | 7701 | 7713 | 7725 | 7738 | 7750 | 7762 | |
| 3530 | 54 7775 | 7787 | 7799 | 7812 | 7824 | 7836 | 7849 | 7861 | 7873 | 7885 | |
| 31 | 7898 | 7910 | 7922 | 7935 | 7947 | 7959 | 7972 | 7984 | 7996 | 8008 | 12 |
| 32 | 8021 | 8033 | 8045 | 8058 | 8070 | 8082 | 8094 | 8107 | 8119 | 8131 | 1 1.2 |
| 33 | 8144 | 8156 | 8168 | 8181 | 8193 | 8205 | 8217 | 8230 | 8242 | 8254 | 2 2.4 |
| 34 | 8267 | 8279 | 8291 | 8303 | 8316 | 8328 | 8340 | 8353 | 8365 | 8377 | 3 3.6 |
| 35 | 54 8389 | 8402 | 8414 | 8426 | 8439 | 8451 | 8463 | 8475 | 8488 | 8500 | 4 4.8 |
| 36 | 8512 | 8525 | 8537 | 8549 | 8561 | 8574 | 8586 | 8598 | 8611 | 8623 | 5 6.0 |
| 37 | 8635 | 8647 | 8660 | 8672 | 8684 | 8696 | 8709 | 8721 | 8733 | 8746 | 6 7.2 |
| 38 | 8758 | 8770 | 8782 | 8795 | 8807 | 8819 | 8831 | 8844 | 8856 | 8868 | 7 8.4 |
| 39 | 8881 | 8893 | 8905 | 8917 | 8930 | 8942 | 8954 | 8966 | 8979 | 8991 | 8 9.6 |
| 3540 | 54 9005 | 9016 | 9028 | 9040 | 9052 | 9065 | 9077 | 9089 | 9101 | 9114 | 9 10.8 |
| 41 | 9126 | 9138 | 9150 | 9163 | 9175 | 9187 | 9200 | 9212 | 9224 | 9236 | |
| 42 | 9249 | 9261 | 9273 | 9285 | 9298 | 9310 | 9322 | 9334 | 9347 | 9359 | |
| 43 | 9371 | 9383 | 9396 | 9408 | 9420 | 9432 | 9445 | 9457 | 9469 | 9481 | |
| 44 | 9494 | 9506 | 9518 | 9530 | 9543 | 9555 | 9567 | 9579 | 9592 | 9604 | |
| 45 | 54 9616 | 9628 | 9641 | 9653 | 9665 | 9677 | 9690 | 9702 | 9714 | 9726 | |
| 46 | 9739 | 9751 | 9763 | 9775 | 9788 | 9800 | 9812 | 9824 | 9837 | 9849 | |
| 47 | 9861 | 9873 | 9886 | 9898 | 9910 | 9922 | 9935 | 9947 | 9959 | 9971 | |
| 48 | 9984 | 9996 | 10008 | 10020 | 10033 | 10045 | 10057 | 10069 | 10082 | 10094 | |
| 49 | 55 0106 | 0118 | 0130 | 0143 | 0155 | 0167 | 0179 | 0192 | 0204 | 0216 | |
| 3550 | 55 0228 | 0241 | 0253 | 0265 | 0277 | 0290 | 0302 | 0314 | 0326 | 0338 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 35000" = 9° 43' 20" | | | | 35000" = 0° 58' 20" | | | S. 4,685 | 554 | T. 617 | |
| | 35100" = 9 45 0 | | | | 35100" = 0 58 30 | | | | 554 | 617 | |
| | 35200" = 9 46 40 | | | | 35200" = 0 58 40 | | | | 554 | 617 | |
| | 35300" = 9 48 20 | | | | 35300" = 0 58 50 | | | | 554 | 617 | |
| | 35400" = 9 50 0 | | | | 35400" = 0 59 0 | | | | 554 | 618 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|--------------|----------|------|--------|------|--------|
| 3550 | 55 0228 | 0241 | 0253 | 0265 | 0277 | 0290 | 0302 | 0314 | 0326 | 0338 | |
| 51 | 0351 | 0363 | 0375 | 0387 | 0400 | 0412 | 0424 | 0436 | 0449 | 0461 | |
| 52 | 0473 | 0485 | 0497 | 0510 | 0522 | 0534 | 0546 | 0559 | 0571 | 0583 | |
| 53 | 0595 | 0607 | 0620 | 0632 | 0644 | 0656 | 0669 | 0681 | 0693 | 0705 | |
| 54 | 0717 | 0730 | 0742 | 0754 | 0766 | 0779 | 0791 | 0803 | 0815 | 0827 | |
| 55 | 0840 | 0852 | 0864 | 0876 | 0888 | 0901 | 0913 | 0925 | 0937 | 0950 | |
| 56 | 0962 | 0974 | 0986 | 0998 | 1011 | 1023 | 1035 | 1047 | 1059 | 1072 | |
| 57 | 1084 | 1096 | 1108 | 1120 | 1133 | 1145 | 1157 | 1169 | 1182 | 1194 | |
| 58 | 1206 | 1218 | 1230 | 1243 | 1255 | 1267 | 1279 | 1291 | 1304 | 1316 | |
| 59 | 1328 | 1340 | 1352 | 1365 | 1377 | 1389 | 1401 | 1413 | 1426 | 1438 | |
| 3560 | 55 1450 | 1462 | 1474 | 1487 | 1499 | 1511 | 1523 | 1535 | 1548 | 1560 | |
| 61 | 1572 | 1584 | 1596 | 1609 | 1621 | 1633 | 1645 | 1657 | 1670 | 1682 | 13 |
| 62 | 1694 | 1706 | 1718 | 1730 | 1743 | 1755 | 1767 | 1779 | 1791 | 1804 | 1 1.3 |
| 63 | 1816 | 1828 | 1840 | 1852 | 1865 | 1877 | 1889 | 1901 | 1913 | 1926 | 2 2.6 |
| 64 | 1938 | 1950 | 1962 | 1974 | 1986 | 1999 | 2011 | 2023 | 2035 | 2047 | 3 3.9 |
| 65 | 55 2060 | 2072 | 2084 | 2096 | 2108 | 2120 | 2133 | 2145 | 2157 | 2169 | 4 5.2 |
| 66 | 2181 | 2194 | 2206 | 2218 | 2230 | 2242 | 2254 | 2267 | 2279 | 2291 | 5 6.5 |
| 67 | 2303 | 2315 | 2327 | 2340 | 2352 | 2364 | 2376 | 2388 | 2401 | 2413 | 6 7.8 |
| 68 | 2425 | 2437 | 2449 | 2461 | 2474 | 2486 | 2498 | 2510 | 2522 | 2534 | 7 9.1 |
| 69 | 2547 | 2559 | 2571 | 2583 | 2595 | 2607 | 2620 | 2632 | 2644 | 2656 | 8 10.4 |
| 3570 | 55 2668 | 2680 | 2693 | 2705 | 2717 | 2729 | 2741 | 2753 | 2766 | 2778 | 9 11.7 |
| 71 | 2790 | 2802 | 2814 | 2826 | 2838 | 2851 | 2863 | 2875 | 2887 | 2899 | |
| 72 | 2911 | 2924 | 2936 | 2948 | 2960 | 2972 | 2984 | 2997 | 3009 | 3021 | |
| 73 | 3033 | 3045 | 3057 | 3069 | 3082 | 3094 | 3106 | 3118 | 3130 | 3142 | |
| 74 | 3155 | 3167 | 3179 | 3191 | 3203 | 3215 | 3227 | 3240 | 3252 | 3264 | |
| 75 | 55 3276 | 3288 | 3300 | 3312 | 3325 | 3337 | 3349 | 3361 | 3373 | 3385 | |
| 76 | 3398 | 3410 | 3422 | 3434 | 3446 | 3458 | 3470 | 3483 | 3495 | 3507 | |
| 77 | 3519 | 3531 | 3543 | 3555 | 3568 | 3580 | 3592 | 3604 | 3616 | 3628 | |
| 78 | 3640 | 3652 | 3665 | 3677 | 3689 | 3701 | 3713 | 3725 | 3737 | 3750 | |
| 79 | 3762 | 3774 | 3786 | 3798 | 3810 | 3822 | 3834 | 3847 | 3859 | 3871 | |
| 3580 | 55 3883 | 3895 | 3907 | 3919 | 3932 | 3944 | 3956 | 3968 | 3980 | 3992 | |
| 81 | 4004 | 4016 | 4029 | 4041 | 4053 | 4065 | 4077 | 4089 | 4101 | 4113 | 12 |
| 82 | 4126 | 4138 | 4150 | 4162 | 4174 | 4186 | 4198 | 4210 | 4223 | 4235 | 1 1.2 |
| 83 | 4247 | 4259 | 4271 | 4283 | 4295 | 4307 | 4320 | 4332 | 4344 | 4356 | 2 2.4 |
| 84 | 4368 | 4380 | 4392 | 4404 | 4416 | 4429 | 4441 | 4453 | 4465 | 4477 | 3 3.6 |
| 85 | 55 4489 | 4501 | 4513 | 4526 | 4538 | 4550 | 4562 | 4574 | 4586 | 4598 | 4 4.8 |
| 86 | 4610 | 4622 | 4635 | 4647 | 4659 | 4671 | 4683 | 4695 | 4707 | 4719 | 5 6.0 |
| 87 | 4731 | 4743 | 4756 | 4768 | 4780 | 4792 | 4804 | 4816 | 4828 | 4840 | 6 7.2 |
| 88 | 4852 | 4865 | 4877 | 4889 | 4901 | 4913 | 4925 | 4937 | 4949 | 4961 | 7 8.4 |
| 89 | 4973 | 4986 | 4998 | 5010 | 5022 | 5034 | 5046 | 5058 | 5070 | 5082 | 8 9.6 |
| 3590 | 55 5094 | 5107 | 5119 | 5131 | 5143 | 5155 | 5167 | 5179 | 5191 | 5203 | 9 10.8 |
| 91 | 5215 | 5227 | 5240 | 5252 | 5264 | 5276 | 5288 | 5300 | 5312 | 5324 | |
| 92 | 5336 | 5348 | 5361 | 5373 | 5385 | 5397 | 5409 | 5421 | 5433 | 5445 | |
| 93 | 5457 | 5469 | 5481 | 5493 | 5506 | 5518 | 5530 | 5542 | 5554 | 5566 | |
| 94 | 5578 | 5590 | 5602 | 5614 | 5626 | 5638 | 5651 | 5663 | 5675 | 5687 | |
| 95 | 55 5699 | 5711 | 5723 | 5735 | 5747 | 5759 | 5771 | 5783 | 5796 | 5808 | |
| 96 | 5820 | 5832 | 5844 | 5856 | 5868 | 5880 | 5892 | 5904 | 5916 | 5928 | |
| 97 | 5940 | 5953 | 5965 | 5977 | 5989 | 6001 | 6013 | 6025 | 6037 | 6049 | |
| 98 | 6061 | 6073 | 6085 | 6097 | 6109 | 6122 | 6134 | 6146 | 6158 | 6170 | |
| 99 | 6182 | 6194 | 6206 | 6218 | 6230 | 6242 | 6254 | 6266 | 6278 | 6290 | |
| 3600 | 55 6303 | 6315 | 6327 | 6339 | 6351 | 6363 | 6375 | 6387 | 6399 | 6411 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 35500 | = 9° 51' 40" | | | | 35500 | = 0° 59' 10" | S. 4,685 | 553 | T. 618 | | |
| 35600 | = 9 53 20 | | | | 35600 | = 0 59 20 | | 553 | 618 | | |
| 35700 | = 9 55 0 | | | | 35700 | = 0 59 30 | | 553 | 618 | | |
| 35800 | = 9 56 40 | | | | 35800 | = 0 59 40 | | 553 | 618 | | |
| 35900 | = 9 58 20 | | | | 35900 | = 0 59 50 | | 553 | 619 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------|-----------|------|------|-------|----------|------|----------|------|--------|--------|
| 3600 | 55 6303 | 6315 | 6327 | 6339 | 6351 | 6363 | 6375 | 6387 | 6399 | 6411 | |
| 01 | 6423 | 6435 | 6447 | 6459 | 6471 | 6483 | 6495 | 6508 | 6520 | 6532 | |
| 02 | 6544 | 6556 | 6568 | 6580 | 6592 | 6604 | 6616 | 6628 | 6640 | 6652 | |
| 03 | 6664 | 6676 | 6688 | 6700 | 6712 | 6725 | 6737 | 6749 | 6761 | 6773 | |
| 04 | 6785 | 6797 | 6809 | 6821 | 6833 | 6845 | 6857 | 6869 | 6881 | 6893 | |
| 05 | 55 6905 | 6917 | 6929 | 6941 | 6953 | 6965 | 6978 | 6990 | 7002 | 7014 | |
| 06 | 7026 | 7038 | 7050 | 7062 | 7074 | 7086 | 7098 | 7110 | 7122 | 7134 | |
| 07 | 7146 | 7158 | 7170 | 7182 | 7194 | 7206 | 7218 | 7230 | 7242 | 7254 | |
| 08 | 7267 | 7279 | 7291 | 7303 | 7315 | 7327 | 7339 | 7351 | 7363 | 7375 | |
| 09 | 7387 | 7399 | 7411 | 7423 | 7435 | 7447 | 7459 | 7471 | 7483 | 7495 | |
| 3610 | 55 7507 | 7519 | 7531 | 7543 | 7555 | 7567 | 7579 | 7591 | 7603 | 7615 | |
| 11 | 7627 | 7640 | 7652 | 7664 | 7676 | 7688 | 7700 | 7712 | 7724 | 7736 | 12 |
| 12 | 7748 | 7760 | 7772 | 7784 | 7796 | 7808 | 7820 | 7832 | 7844 | 7856 | 1 1.2 |
| 13 | 7868 | 7880 | 7892 | 7904 | 7916 | 7928 | 7940 | 7952 | 7964 | 7976 | 2 2.4 |
| 14 | 7988 | 8000 | 8012 | 8024 | 8036 | 8048 | 8060 | 8072 | 8084 | 8096 | 3 3.6 |
| 15 | 55 8108 | 8120 | 8132 | 8144 | 8156 | 8168 | 8180 | 8192 | 8204 | 8216 | 4 4.8 |
| 16 | 8228 | 8240 | 8252 | 8264 | 8276 | 8288 | 8300 | 8312 | 8324 | 8336 | 5 6.0 |
| 17 | 8349 | 8361 | 8373 | 8385 | 8397 | 8409 | 8421 | 8433 | 8445 | 8457 | 6 7.2 |
| 18 | 8469 | 8481 | 8493 | 8505 | 8517 | 8529 | 8541 | 8553 | 8565 | 8577 | 7 8.4 |
| 19 | 8589 | 8601 | 8613 | 8625 | 8637 | 8649 | 8661 | 8673 | 8685 | 8697 | 8 9.6 |
| 3620 | 55 8709 | 8721 | 8733 | 8745 | 8757 | 8769 | 8781 | 8793 | 8805 | 8817 | 9 10.8 |
| 21 | 8829 | 8841 | 8853 | 8865 | 8876 | 8888 | 8900 | 8912 | 8924 | 8936 | |
| 22 | 8948 | 8960 | 8972 | 8984 | 8996 | 9008 | 9020 | 9032 | 9044 | 9056 | |
| 23 | 9068 | 9080 | 9092 | 9104 | 9116 | 9128 | 9140 | 9152 | 9164 | 9176 | |
| 24 | 9188 | 9200 | 9212 | 9224 | 9236 | 9248 | 9260 | 9272 | 9284 | 9296 | |
| 25 | 55 9308 | 9320 | 9332 | 9344 | 9356 | 9368 | 9380 | 9392 | 9404 | 9416 | |
| 26 | 9428 | 9440 | 9452 | 9464 | 9476 | 9488 | 9500 | 9512 | 9524 | 9536 | |
| 27 | 9548 | 9560 | 9572 | 9583 | 9595 | 9607 | 9619 | 9631 | 9643 | 9655 | |
| 28 | 9667 | 9679 | 9691 | 9703 | 9715 | 9727 | 9739 | 9751 | 9763 | 9775 | |
| 29 | 9787 | 9799 | 9811 | 9823 | 9835 | 9847 | 9859 | 9871 | 9883 | 9895 | |
| 3630 | 55 9907 | 9919 | 9931 | 9943 | 9954 | 9966 | 9978 | 9990 | 1002 | 1014 | |
| 31 | 5 1016 | 1028 | 1040 | 1052 | 1064 | 1076 | 1088 | 1100 | 1112 | 1124 | 11 |
| 32 | 0146 | 0158 | 0170 | 0182 | 0194 | 0206 | 0218 | 0230 | 0241 | 0253 | 1 1.1 |
| 33 | 0265 | 0277 | 0289 | 0301 | 0313 | 0325 | 0337 | 0349 | 0361 | 0373 | 2 2.2 |
| 34 | 0385 | 0397 | 0409 | 0421 | 0433 | 0445 | 0457 | 0469 | 0481 | 0492 | 3 3.3 |
| 35 | 56 0504 | 0516 | 0528 | 0540 | 0552 | 0564 | 0576 | 0588 | 0600 | 0612 | 4 4.4 |
| 36 | 0624 | 0636 | 0648 | 0660 | 0672 | 0684 | 0696 | 0707 | 0719 | 0731 | 5 5.5 |
| 37 | 0743 | 0755 | 0767 | 0779 | 0791 | 0803 | 0815 | 0827 | 0839 | 0851 | 6 6.6 |
| 38 | 0863 | 0875 | 0887 | 0899 | 0910 | 0922 | 0934 | 0946 | 0958 | 0970 | 7 7.7 |
| 39 | 0982 | 0994 | 1006 | 1018 | 1030 | 1042 | 1054 | 1066 | 1078 | 1089 | 8 8.8 |
| 3640 | 56 1101 | 1113 | 1125 | 1137 | 1149 | 1161 | 1173 | 1185 | 1197 | 1209 | 9 9.9 |
| 41 | 1221 | 1233 | 1245 | 1256 | 1268 | 1280 | 1292 | 1304 | 1316 | 1328 | |
| 42 | 1340 | 1352 | 1364 | 1376 | 1388 | 1400 | 1411 | 1423 | 1435 | 1447 | |
| 43 | 1459 | 1471 | 1483 | 1495 | 1507 | 1519 | 1531 | 1543 | 1555 | 1566 | |
| 44 | 1578 | 1590 | 1602 | 1614 | 1626 | 1638 | 1650 | 1662 | 1674 | 1686 | |
| 45 | 56 1698 | 1709 | 1721 | 1733 | 1745 | 1757 | 1769 | 1781 | 1793 | 1805 | |
| 46 | 1817 | 1829 | 1840 | 1852 | 1864 | 1876 | 1888 | 1900 | 1912 | 1924 | |
| 47 | 1936 | 1948 | 1960 | 1971 | 1983 | 1995 | 2007 | 2019 | 2031 | 2043 | |
| 48 | 2055 | 2067 | 2079 | 2091 | 2102 | 2114 | 2126 | 2138 | 2150 | 2162 | |
| 49 | 2174 | 2186 | 2198 | 2210 | 2221 | 2233 | 2245 | 2257 | 2269 | 2281 | |
| 3650 | 56 2293 | 2305 | 2317 | 2329 | 2340 | 2352 | 2364 | 2376 | 2388 | 2400 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 36000" | = 10° 0' | 0" | | 3600" | = 1° 0' | 0" | S. 4,685 | 553 | T. 619 | |
| | 36100 | = 10 1 40 | | | 3610 | = 1 0 10 | | | 553 | 619 | |
| | 36200 | = 10 3 20 | | | 3620 | = 1 0 20 | | | 553 | 619 | |
| | 36300 | = 10 5 0 | | | 3630 | = 1 0 30 | | | 552 | 620 | |
| | 36400 | = 10 6 40 | | | 3640 | = 1 0 40 | | | 552 | 620 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|--------------|------|------|---------------------|------|------|--------------|------|------|--------|--------|
| 3650 | 56 2293 | 2305 | 2317 | 2329 | 2340 | 2352 | 2364 | 2376 | 2388 | 2400 | |
| 51 | 2412 | 2424 | 2436 | 2448 | 2459 | 2471 | 2483 | 2495 | 2507 | 2519 | |
| 52 | 2531 | 2543 | 2555 | 2566 | 2578 | 2590 | 2602 | 2614 | 2626 | 2638 | |
| 53 | 2650 | 2662 | 2673 | 2685 | 2697 | 2709 | 2721 | 2733 | 2745 | 2757 | |
| 54 | 2769 | 2780 | 2792 | 2804 | 2816 | 2828 | 2840 | 2852 | 2864 | 2875 | |
| 55 | 56 2887 | 2899 | 2911 | 2923 | 2935 | 2947 | 2959 | 2971 | 2982 | 2994 | |
| 56 | 3006 | 3018 | 3030 | 3042 | 3054 | 3066 | 3077 | 3089 | 3101 | 3113 | |
| 57 | 3125 | 3137 | 3149 | 3161 | 3172 | 3184 | 3196 | 3208 | 3220 | 3232 | |
| 58 | 3244 | 3256 | 3267 | 3279 | 3291 | 3303 | 3315 | 3327 | 3339 | 3351 | |
| 59 | 3362 | 3374 | 3386 | 3398 | 3410 | 3422 | 3434 | 3445 | 3457 | 3469 | |
| 3660 | 56 3481 | 3493 | 3505 | 3517 | 3529 | 3540 | 3552 | 3564 | 3576 | 3588 | |
| 61 | 3600 | 3612 | 3623 | 3635 | 3647 | 3659 | 3671 | 3683 | 3695 | 3706 | I 2 |
| 62 | 3718 | 3730 | 3742 | 3754 | 3766 | 3778 | 3789 | 3801 | 3813 | 3825 | 1 I. 2 |
| 63 | 3837 | 3849 | 3861 | 3872 | 3884 | 3896 | 3908 | 3920 | 3932 | 3944 | 2 2.4 |
| 64 | 3955 | 3967 | 3979 | 3991 | 4003 | 4015 | 4027 | 4038 | 4050 | 4062 | 3 3.6 |
| 65 | 56 4074 | 4086 | 4098 | 4110 | 4121 | 4133 | 4145 | 4157 | 4169 | 4181 | 4 4.8 |
| 66 | 4192 | 4204 | 4216 | 4228 | 4240 | 4252 | 4264 | 4275 | 4287 | 4299 | 5 6.0 |
| 67 | 4311 | 4323 | 4335 | 4346 | 4358 | 4370 | 4382 | 4394 | 4406 | 4417 | 6 7.2 |
| 68 | 4429 | 4441 | 4453 | 4465 | 4477 | 4489 | 4500 | 4512 | 4524 | 4536 | 7 8.4 |
| 69 | 4548 | 4560 | 4571 | 4583 | 4595 | 4607 | 4619 | 4631 | 4642 | 4654 | 8 9.6 |
| 3670 | 56 4666 | 4678 | 4690 | 4702 | 4713 | 4725 | 4737 | 4749 | 4761 | 4773 | 9 10.8 |
| 71 | 4784 | 4796 | 4808 | 4820 | 4832 | 4844 | 4855 | 4867 | 4879 | 4891 | |
| 72 | 4903 | 4914 | 4926 | 4938 | 4950 | 4962 | 4974 | 4985 | 4997 | 5009 | |
| 73 | 5021 | 5033 | 5045 | 5056 | 5068 | 5080 | 5092 | 5104 | 5116 | 5127 | |
| 74 | 5139 | 5151 | 5163 | 5175 | 5186 | 5198 | 5210 | 5222 | 5234 | 5246 | |
| 75 | 56 5257 | 5269 | 5281 | 5293 | 5305 | 5316 | 5328 | 5340 | 5352 | 5364 | |
| 76 | 5376 | 5387 | 5399 | 5411 | 5423 | 5435 | 5446 | 5458 | 5470 | 5482 | |
| 77 | 5494 | 5505 | 5517 | 5529 | 5541 | 5553 | 5564 | 5576 | 5588 | 5600 | |
| 78 | 5612 | 5624 | 5635 | 5647 | 5659 | 5671 | 5683 | 5694 | 5706 | 5718 | |
| 79 | 5730 | 5742 | 5753 | 5765 | 5777 | 5789 | 5801 | 5812 | 5824 | 5836 | |
| 3680 | 56 5848 | 5860 | 5871 | 5883 | 5895 | 5907 | 5919 | 5930 | 5942 | 5954 | |
| 81 | 5966 | 5978 | 5989 | 6001 | 6013 | 6025 | 6037 | 6048 | 6060 | 6072 | II |
| 82 | 6084 | 6096 | 6107 | 6119 | 6131 | 6143 | 6155 | 6166 | 6178 | 6190 | I 1.1 |
| 83 | 6202 | 6214 | 6225 | 6237 | 6249 | 6261 | 6272 | 6284 | 6296 | 6308 | 2 2.2 |
| 84 | 6320 | 6331 | 6343 | 6355 | 6367 | 6379 | 6390 | 6402 | 6414 | 6426 | 3 3.3 |
| 85 | 56 6437 | 6449 | 6461 | 6473 | 6485 | 6496 | 6508 | 6520 | 6532 | 6544 | 4 4.4 |
| 86 | 6555 | 6567 | 6579 | 6591 | 6602 | 6614 | 6626 | 6638 | 6650 | 6661 | 5 5.5 |
| 87 | 6673 | 6685 | 6697 | 6708 | 6720 | 6732 | 6744 | 6755 | 6767 | 6779 | 6 6.6 |
| 88 | 6791 | 6803 | 6814 | 6826 | 6838 | 6850 | 6862 | 6873 | 6885 | 6897 | 7 7.7 |
| 89 | 6909 | 6920 | 6932 | 6944 | 6956 | 6968 | 6979 | 6991 | 7003 | 7015 | 8 8.8 |
| 3690 | 56 7026 | 7038 | 7050 | 7062 | 7073 | 7085 | 7097 | 7109 | 7121 | 7132 | 9 9.9 |
| 91 | 7144 | 7155 | 7166 | 7179 | 7191 | 7203 | 7215 | 7226 | 7238 | 7250 | |
| 92 | 7262 | 7273 | 7285 | 7297 | 7309 | 7321 | 7332 | 7344 | 7356 | 7368 | |
| 93 | 7379 | 7391 | 7403 | 7415 | 7426 | 7438 | 7450 | 7462 | 7473 | 7485 | |
| 94 | 7497 | 7509 | 7520 | 7532 | 7544 | 7556 | 7567 | 7579 | 7591 | 7603 | |
| 95 | 56 7614 | 7626 | 7638 | 7650 | 7661 | 7673 | 7685 | 7697 | 7708 | 7720 | |
| 96 | 7732 | 7744 | 7755 | 7767 | 7779 | 7791 | 7802 | 7814 | 7826 | 7838 | |
| 97 | 7849 | 7861 | 7873 | 7885 | 7896 | 7908 | 7920 | 7932 | 7943 | 7955 | |
| 98 | 7967 | 7979 | 7990 | 8002 | 8014 | 8026 | 8037 | 8049 | 8061 | 8073 | |
| 99 | 8084 | 8096 | 8108 | 8120 | 8131 | 8143 | 8155 | 8167 | 8178 | 8190 | |
| 3700 | 56 8202 | 8213 | 8225 | 8237 | 8249 | 8260 | 8272 | 8284 | 8296 | 8307 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 36500" | = 10° 8' 20" | | | 36500" = 10° 0' 50" | | | S. 4.685 552 | | | T. 620 | |
| 36600 | = 10 10 0 | | | 3660 = 1 1 0 | | | 552 | | | 620 | |
| 36700 | = 10 11 40 | | | 3670 = 1 1 10 | | | 552 | | | 621 | |
| 36800 | = 10 13 20 | | | 3680 = 1 1 20 | | | 552 | | | 621 | |
| 36900 | = 10 15 0 | | | 3690 = 1 1 30 | | | 552 | | | 621 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|---------------------|------|------|----------|------|--------|-----|
| 3700 | 56 8202 | 8213 | 8225 | 8237 | 8249 | 8260 | 8272 | 8284 | 8296 | 8307 | |
| 01 | 8319 | 8331 | 8343 | 8354 | 8366 | 8378 | 8389 | 8401 | 8413 | 8425 | |
| 02 | 8436 | 8448 | 8460 | 8472 | 8483 | 8495 | 8507 | 8519 | 8530 | 8542 | |
| 03 | 8554 | 8565 | 8577 | 8589 | 8601 | 8612 | 8624 | 8636 | 8648 | 8659 | |
| 04 | 8671 | 8683 | 8694 | 8706 | 8718 | 8730 | 8741 | 8753 | 8765 | 8776 | |
| 05 | 56 8788 | 8800 | 8812 | 8823 | 8835 | 8847 | 8859 | 8870 | 8882 | 8894 | |
| 06 | 8905 | 8917 | 8929 | 8941 | 8952 | 8964 | 8976 | 8987 | 8999 | 9011 | |
| 07 | 9023 | 9034 | 9046 | 9058 | 9069 | 9081 | 9093 | 9105 | 9116 | 9128 | |
| 08 | 9140 | 9151 | 9163 | 9175 | 9187 | 9198 | 9210 | 9222 | 9233 | 9245 | |
| 09 | 9257 | 9269 | 9280 | 9292 | 9304 | 9315 | 9327 | 9339 | 9350 | 9362 | |
| 3710 | 56 9374 | 9386 | 9397 | 9409 | 9421 | 9432 | 9444 | 9456 | 9468 | 9479 | |
| 11 | 9491 | 9503 | 9514 | 9526 | 9538 | 9549 | 9561 | 9573 | 9585 | 9596 | |
| 12 | 9608 | 9620 | 9631 | 9643 | 9655 | 9666 | 9678 | 9690 | 9702 | 9713 | |
| 13 | 9725 | 9737 | 9748 | 9760 | 9772 | 9783 | 9795 | 9807 | 9819 | 9830 | |
| 14 | 9842 | 9854 | 9865 | 9877 | 9889 | 9900 | 9912 | 9924 | 9935 | 9947 | |
| 15 | 56 9959 | 9971 | 9982 | 9994 | 1006 | 1017 | 1029 | 1041 | 1052 | 1064 | |
| 16 | 57 0076 | 0087 | 0099 | 0111 | 0122 | 0134 | 0146 | 0158 | 0169 | 0181 | |
| 17 | 0193 | 0204 | 0216 | 0228 | 0239 | 0251 | 0263 | 0274 | 0286 | 0298 | |
| 18 | 0309 | 0321 | 0333 | 0344 | 0356 | 0368 | 0379 | 0391 | 0403 | 0415 | |
| 19 | 0426 | 0438 | 0450 | 0461 | 0473 | 0485 | 0496 | 0508 | 0520 | 0531 | |
| 3720 | 57 0543 | 0555 | 0566 | 0578 | 0590 | 0601 | 0613 | 0625 | 0636 | 0648 | |
| 21 | 0660 | 0671 | 0683 | 0695 | 0706 | 0718 | 0730 | 0741 | 0753 | 0765 | |
| 22 | 0776 | 0788 | 0800 | 0811 | 0823 | 0835 | 0846 | 0858 | 0870 | 0881 | |
| 23 | 0893 | 0905 | 0916 | 0928 | 0940 | 0951 | 0963 | 0975 | 0986 | 0998 | |
| 24 | 1010 | 1021 | 1033 | 1045 | 1056 | 1068 | 1080 | 1091 | 1103 | 1115 | |
| 25 | 57 1126 | 1138 | 1150 | 1161 | 1173 | 1185 | 1196 | 1208 | 1220 | 1231 | |
| 26 | 1243 | 1255 | 1266 | 1278 | 1289 | 1301 | 1313 | 1324 | 1336 | 1348 | |
| 27 | 1359 | 1371 | 1383 | 1394 | 1406 | 1418 | 1429 | 1441 | 1453 | 1464 | |
| 28 | 1476 | 1488 | 1499 | 1511 | 1522 | 1534 | 1546 | 1557 | 1569 | 1581 | |
| 29 | 1592 | 1604 | 1616 | 1627 | 1639 | 1651 | 1662 | 1674 | 1686 | 1697 | |
| 3730 | 57 1709 | 1720 | 1732 | 1744 | 1755 | 1767 | 1779 | 1790 | 1802 | 1814 | |
| 31 | 1825 | 1837 | 1849 | 1860 | 1872 | 1883 | 1895 | 1907 | 1918 | 1930 | |
| 32 | 1942 | 1953 | 1965 | 1977 | 1988 | 2000 | 2011 | 2023 | 2035 | 2046 | |
| 33 | 2058 | 2070 | 2081 | 2093 | 2105 | 2116 | 2128 | 2139 | 2151 | 2163 | |
| 34 | 2174 | 2186 | 2198 | 2209 | 2221 | 2232 | 2244 | 2256 | 2267 | 2279 | |
| 35 | 57 2291 | 2302 | 2314 | 2325 | 2337 | 2349 | 2360 | 2372 | 2384 | 2395 | |
| 36 | 2407 | 2418 | 2430 | 2442 | 2453 | 2465 | 2477 | 2488 | 2500 | 2511 | |
| 37 | 2523 | 2535 | 2546 | 2558 | 2570 | 2581 | 2593 | 2604 | 2616 | 2628 | |
| 38 | 2639 | 2651 | 2663 | 2674 | 2686 | 2697 | 2709 | 2721 | 2732 | 2744 | |
| 39 | 2755 | 2767 | 2779 | 2790 | 2802 | 2814 | 2825 | 2837 | 2848 | 2860 | |
| 3740 | 57 2872 | 2883 | 2895 | 2906 | 2918 | 2930 | 2941 | 2953 | 2964 | 2976 | |
| 41 | 2988 | 2999 | 3011 | 3023 | 3034 | 3046 | 3057 | 3069 | 3081 | 3092 | |
| 42 | 3104 | 3115 | 3127 | 3139 | 3150 | 3162 | 3173 | 3185 | 3197 | 3208 | |
| 43 | 3220 | 3231 | 3243 | 3255 | 3266 | 3278 | 3289 | 3301 | 3313 | 3324 | |
| 44 | 3336 | 3347 | 3359 | 3371 | 3382 | 3394 | 3405 | 3417 | 3429 | 3440 | |
| 45 | 57 3452 | 3463 | 3475 | 3487 | 3498 | 3510 | 3521 | 3533 | 3545 | 3556 | |
| 46 | 3568 | 3579 | 3591 | 3603 | 3614 | 3626 | 3637 | 3649 | 3661 | 3672 | |
| 47 | 3684 | 3695 | 3707 | 3718 | 3730 | 3742 | 3753 | 3765 | 3776 | 3788 | |
| 48 | 3800 | 3811 | 3823 | 3835 | 3846 | 3858 | 3869 | 3881 | 3892 | 3904 | |
| 49 | 3915 | 3927 | 3939 | 3950 | 3962 | 3973 | 3985 | 3997 | 4008 | 4020 | |
| 3750 | 57 4031 | 4043 | 4054 | 4066 | 4078 | 4089 | 4101 | 4112 | 4124 | 4135 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 37000" = 10° 16' 40" | | | | 37000" = 10° 1' 40" | | | S. 4,685 | 552 | T. 621 | |
| | 37100 = 10 18 20 | | | | 37100 = 10 1 50 | | | | 551 | 622 | |
| | 37200 = 10 20 0 | | | | 37200 = 10 2 0 | | | | 551 | 622 | |
| | 37300 = 10 21 40 | | | | 37300 = 10 2 10 | | | | 551 | 622 | |
| | 37400 = 10 23 20 | | | | 37400 = 10 2 20 | | | | 551 | 622 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|-------------|----------|------|--------|------|--------|
| 3750 | 57 4031 | 4043 | 4054 | 4066 | 4078 | 4089 | 4101 | 4112 | 4124 | 4135 | |
| 51 | 4147 | 4159 | 4170 | 4182 | 4193 | 4205 | 4217 | 4228 | 4240 | 4251 | |
| 52 | 4263 | 4274 | 4286 | 4298 | 4309 | 4321 | 4332 | 4344 | 4355 | 4367 | |
| 53 | 4379 | 4390 | 4402 | 4413 | 4425 | 4436 | 4448 | 4460 | 4471 | 4483 | |
| 54 | 4494 | 4506 | 4517 | 4529 | 4541 | 4552 | 4564 | 4575 | 4587 | 4598 | |
| 55 | 57 4610 | 4622 | 4633 | 4645 | 4656 | 4668 | 4679 | 4691 | 4702 | 4714 | |
| 56 | 4726 | 4737 | 4749 | 4760 | 4772 | 4783 | 4795 | 4807 | 4818 | 4830 | |
| 57 | 4841 | 4853 | 4864 | 4876 | 4887 | 4899 | 4911 | 4922 | 4934 | 4945 | |
| 58 | 4957 | 4968 | 4980 | 4991 | 5003 | 5015 | 5026 | 5038 | 5049 | 5061 | |
| 59 | 5072 | 5084 | 5095 | 5107 | 5119 | 5130 | 5142 | 5153 | 5165 | 5176 | |
| 3760 | 57 5188 | 5199 | 5211 | 5222 | 5234 | 5246 | 5257 | 5269 | 5280 | 5292 | |
| 61 | 5303 | 5315 | 5326 | 5338 | 5350 | 5361 | 5373 | 5384 | 5396 | 5407 | I 2 |
| 62 | 5419 | 5430 | 5442 | 5453 | 5465 | 5477 | 5488 | 5500 | 5511 | 5523 | 1 1.2 |
| 63 | 5534 | 5546 | 5557 | 5569 | 5580 | 5592 | 5603 | 5615 | 5627 | 5638 | 2 2.4 |
| 64 | 5650 | 5661 | 5673 | 5684 | 5696 | 5707 | 5719 | 5730 | 5742 | 5753 | 3 3.6 |
| 65 | 57 5765 | 5777 | 5788 | 5800 | 5811 | 5823 | 5834 | 5846 | 5857 | 5869 | 4 4.8 |
| 66 | 5880 | 5892 | 5903 | 5915 | 5926 | 5938 | 5950 | 5961 | 5973 | 5984 | 5 6.0 |
| 67 | 5996 | 6007 | 6019 | 6030 | 6042 | 6053 | 6065 | 6076 | 6088 | 6099 | 6 7.2 |
| 68 | 6111 | 6122 | 6134 | 6145 | 6157 | 6169 | 6180 | 6192 | 6203 | 6215 | 7 8.4 |
| 69 | 6226 | 6238 | 6249 | 6261 | 6272 | 6284 | 6295 | 6307 | 6318 | 6330 | 8 9.6 |
| 3770 | 57 6341 | 6353 | 6364 | 6376 | 6387 | 6399 | 6410 | 6422 | 6433 | 6445 | 9 10.8 |
| 71 | 6457 | 6468 | 6480 | 6491 | 6503 | 6514 | 6526 | 6537 | 6549 | 6560 | |
| 72 | 6572 | 6583 | 6595 | 6606 | 6618 | 6629 | 6641 | 6652 | 6664 | 6675 | |
| 73 | 6687 | 6698 | 6710 | 6721 | 6733 | 6744 | 6756 | 6767 | 6779 | 6790 | |
| 74 | 6802 | 6813 | 6825 | 6836 | 6848 | 6859 | 6871 | 6882 | 6894 | 6905 | |
| 75 | 57 6917 | 6928 | 6940 | 6951 | 6963 | 6974 | 6986 | 6997 | 7009 | 7020 | |
| 76 | 7032 | 7043 | 7055 | 7066 | 7078 | 7089 | 7101 | 7112 | 7124 | 7135 | |
| 77 | 7147 | 7158 | 7170 | 7181 | 7193 | 7204 | 7216 | 7227 | 7239 | 7250 | |
| 78 | 7262 | 7273 | 7285 | 7296 | 7308 | 7319 | 7331 | 7342 | 7354 | 7365 | |
| 79 | 7377 | 7388 | 7400 | 7411 | 7423 | 7434 | 7446 | 7457 | 7469 | 7480 | |
| 3780 | 57 7492 | 7503 | 7515 | 7526 | 7538 | 7549 | 7561 | 7572 | 7584 | 7595 | |
| 81 | 7607 | 7618 | 7630 | 7641 | 7653 | 7664 | 7676 | 7687 | 7699 | 7710 | II |
| 82 | 7722 | 7733 | 7744 | 7756 | 7767 | 7779 | 7790 | 7802 | 7813 | 7825 | 1 1.1 |
| 83 | 7836 | 7848 | 7859 | 7871 | 7882 | 7894 | 7905 | 7917 | 7928 | 7940 | 2 2.2 |
| 84 | 7951 | 7963 | 7974 | 7986 | 7997 | 8009 | 8020 | 8031 | 8043 | 8054 | 3 3.3 |
| 85 | 57 8066 | 8077 | 8089 | 8100 | 8112 | 8123 | 8135 | 8146 | 8158 | 8169 | 4 4.4 |
| 86 | 8181 | 8192 | 8204 | 8215 | 8226 | 8238 | 8249 | 8261 | 8272 | 8284 | 5 5.5 |
| 87 | 8295 | 8307 | 8318 | 8330 | 8341 | 8353 | 8364 | 8376 | 8387 | 8399 | 6 6.6 |
| 88 | 8410 | 8421 | 8433 | 8444 | 8456 | 8467 | 8479 | 8490 | 8502 | 8513 | 7 7.7 |
| 89 | 8525 | 8536 | 8548 | 8559 | 8570 | 8582 | 8593 | 8605 | 8616 | 8628 | 8 8.8 |
| 3790 | 57 8659 | 8671 | 8682 | 8694 | 8705 | 8717 | 8728 | 8739 | 8751 | 8762 | 9 9.9 |
| 91 | 8774 | 8785 | 8797 | 8808 | 8819 | 8830 | 8841 | 8852 | 8863 | 8874 | |
| 92 | 8886 | 8897 | 8908 | 8919 | 8930 | 8941 | 8952 | 8963 | 8974 | 8985 | |
| 93 | 8997 | 9008 | 9019 | 9030 | 9041 | 9052 | 9063 | 9074 | 9085 | 9096 | |
| 94 | 9107 | 9118 | 9129 | 9140 | 9151 | 9162 | 9173 | 9184 | 9195 | 9206 | |
| 95 | 57 9212 | 9223 | 9234 | 9245 | 9256 | 9267 | 9278 | 9289 | 9300 | 9311 | |
| 96 | 9326 | 9337 | 9348 | 9359 | 9370 | 9381 | 9392 | 9403 | 9414 | 9425 | |
| 97 | 9441 | 9452 | 9463 | 9474 | 9485 | 9496 | 9507 | 9518 | 9529 | 9540 | |
| 98 | 9555 | 9566 | 9577 | 9588 | 9599 | 9610 | 9621 | 9632 | 9643 | 9654 | |
| 99 | 9669 | 9680 | 9691 | 9702 | 9713 | 9724 | 9735 | 9746 | 9757 | 9768 | |
| 3800 | 57 9784 | 9795 | 9806 | 9817 | 9828 | 9839 | 9850 | 9861 | 9872 | 9883 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 37500 | = 10° 25' 0" | | | | 37500 | = 1° 2' 30" | S. 4.685 | 551 | T. 623 | | |
| 37600 | = 10 26 40 | | | | 37600 | = 1 2 40 | | 551 | 623 | | |
| 37700 | = 10 28 20 | | | | 37700 | = 1 2 50 | | 551 | 623 | | |
| 37800 | = 10 30 0 | | | | 37800 | = 1 3 0 | | 551 | 623 | | |
| 37900 | = 10 31 40 | | | | 37900 | = 1 3 10 | | 550 | 624 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|-----------------|------|------|-------------------|------|----------|------|--------|------|--------|
| 3800 | 57 9 ⁹¹ | 9 ⁹⁵ | 9806 | 9818 | 9829 | 9841 | 9852 | 9864 | 9875 | 9886 | |
| 01 | 9898 | 9909 | 9921 | 9932 | 9944 | 9955 | 9966 | 9978 | 9989 | 0001 | |
| 02 | 58 0012 | 0024 | 0035 | 0046 | 0058 | 0069 | 0081 | 0092 | 0103 | 0115 | |
| 03 | 0126 | 0138 | 0149 | 0161 | 0172 | 0183 | 0195 | 0206 | 0218 | 0229 | |
| 04 | 0241 | 0252 | 0263 | 0275 | 0286 | 0298 | 0309 | 0320 | 0332 | 0343 | |
| 05 | 58 0355 | 0366 | 0377 | 0389 | 0400 | 0412 | 0423 | 0435 | 0446 | 0457 | |
| 06 | 0469 | 0480 | 0492 | 0503 | 0514 | 0526 | 0537 | 0549 | 0560 | 0571 | |
| 07 | 0583 | 0594 | 0606 | 0617 | 0629 | 0640 | 0651 | 0663 | 0674 | 0686 | |
| 08 | 0697 | 0708 | 0720 | 0731 | 0743 | 0754 | 0765 | 0777 | 0788 | 0800 | |
| 09 | 0811 | 0822 | 0834 | 0845 | 0857 | 0868 | 0879 | 0891 | 0902 | 0914 | |
| 3810 | 58 0925 | 0936 | 0948 | 0959 | 0971 | 0982 | 0993 | 1005 | 1016 | 1028 | |
| 11 | 1039 | 1050 | 1062 | 1073 | 1085 | 1096 | 1107 | 1119 | 1130 | 1141 | 12 |
| 12 | 1153 | 1164 | 1176 | 1187 | 1198 | 1210 | 1221 | 1233 | 1244 | 1255 | 1 1.2 |
| 13 | 1267 | 1278 | 1290 | 1301 | 1312 | 1324 | 1335 | 1347 | 1358 | 1369 | 2 2.4 |
| 14 | 1381 | 1392 | 1403 | 1415 | 1426 | 1438 | 1449 | 1460 | 1472 | 1483 | 3 3.6 |
| 15 | 58 1495 | 1506 | 1517 | 1529 | 1540 | 1551 | 1563 | 1574 | 1586 | 1597 | 4 4.8 |
| 16 | 1608 | 1620 | 1631 | 1643 | 1654 | 1665 | 1677 | 1688 | 1699 | 1711 | 5 6.0 |
| 17 | 1722 | 1734 | 1745 | 1756 | 1768 | 1779 | 1790 | 1802 | 1813 | 1825 | 6 7.2 |
| 18 | 1836 | 1847 | 1859 | 1870 | 1881 | 1893 | 1904 | 1916 | 1927 | 1938 | 7 8.4 |
| 19 | 1950 | 1961 | 1972 | 1984 | 1995 | 2007 | 2018 | 2029 | 2041 | 2052 | 8 9.6 |
| 3820 | 58 2063 | 2075 | 2086 | 2097 | 2109 | 2120 | 2132 | 2143 | 2154 | 2166 | 9 10.8 |
| 21 | 2177 | 2188 | 2200 | 2211 | 2222 | 2234 | 2245 | 2257 | 2268 | 2279 | |
| 22 | 2291 | 2302 | 2313 | 2325 | 2336 | 2347 | 2359 | 2370 | 2382 | 2393 | |
| 23 | 2404 | 2416 | 2427 | 2438 | 2450 | 2461 | 2472 | 2484 | 2495 | 2507 | |
| 24 | 2518 | 2529 | 2541 | 2552 | 2563 | 2575 | 2586 | 2597 | 2609 | 2620 | |
| 25 | 58 2631 | 2643 | 2654 | 2666 | 2677 | 2688 | 2700 | 2711 | 2722 | 2734 | |
| 26 | 2745 | 2756 | 2768 | 2779 | 2790 | 2802 | 2813 | 2824 | 2836 | 2847 | |
| 27 | 2858 | 2870 | 2881 | 2893 | 2904 | 2915 | 2927 | 2938 | 2949 | 2961 | |
| 28 | 2972 | 2983 | 2995 | 3006 | 3017 | 3029 | 3040 | 3051 | 3063 | 3074 | |
| 29 | 3085 | 3097 | 3108 | 3119 | 3131 | 3142 | 3153 | 3165 | 3176 | 3187 | |
| 3830 | 58 3199 | 3210 | 3221 | 3233 | 3244 | 3255 | 3267 | 3278 | 3289 | 3301 | |
| 31 | 3312 | 3323 | 3335 | 3346 | 3357 | 3369 | 3380 | 3391 | 3403 | 3414 | 11 |
| 32 | 3426 | 3437 | 3448 | 3459 | 3471 | 3482 | 3493 | 3505 | 3516 | 3527 | 1 1.1 |
| 33 | 3539 | 3550 | 3561 | 3573 | 3584 | 3595 | 3607 | 3618 | 3629 | 3641 | 2 2.2 |
| 34 | 3652 | 3663 | 3675 | 3686 | 3697 | 3709 | 3720 | 3731 | 3743 | 3754 | 3 3.3 |
| 35 | 58 3765 | 3777 | 3788 | 3799 | 3811 | 3822 | 3833 | 3845 | 3856 | 3867 | 4 4.4 |
| 36 | 3879 | 3890 | 3901 | 3913 | 3924 | 3935 | 3947 | 3958 | 3969 | 3980 | 5 5.5 |
| 37 | 3992 | 4003 | 4014 | 4026 | 4037 | 4048 | 4060 | 4071 | 4082 | 4094 | 6 6.6 |
| 38 | 4105 | 4116 | 4128 | 4139 | 4150 | 4162 | 4173 | 4184 | 4195 | 4207 | 7 7.7 |
| 39 | 4218 | 4229 | 4241 | 4252 | 4263 | 4275 | 4286 | 4297 | 4309 | 4320 | 8 8.8 |
| 3840 | 58 4331 | 4343 | 4354 | 4365 | 4376 | 4388 | 4399 | 4410 | 4422 | 4433 | 9 9.9 |
| 41 | 4444 | 4456 | 4467 | 4478 | 4490 | 4501 | 4512 | 4523 | 4535 | 4546 | |
| 42 | 4557 | 4569 | 4580 | 4591 | 4603 | 4614 | 4625 | 4636 | 4648 | 4659 | |
| 43 | 4670 | 4682 | 4693 | 4704 | 4716 | 4727 | 4738 | 4749 | 4761 | 4772 | |
| 44 | 4783 | 4795 | 4806 | 4817 | 4829 | 4840 | 4851 | 4862 | 4874 | 4885 | |
| 45 | 58 4896 | 4908 | 4919 | 4930 | 4942 | 4953 | 4964 | 4975 | 4987 | 4998 | |
| 46 | 5009 | 5021 | 5032 | 5043 | 5054 | 5066 | 5077 | 5088 | 5100 | 5111 | |
| 47 | 5122 | 5133 | 5145 | 5156 | 5167 | 5179 | 5190 | 5201 | 5212 | 5224 | |
| 48 | 5235 | 5246 | 5258 | 5269 | 5280 | 5291 | 5303 | 5314 | 5325 | 5337 | |
| 49 | 5348 | 5359 | 5370 | 5382 | 5393 | 5404 | 5416 | 5427 | 5438 | 5449 | |
| 3850 | 58 5461 | 5472 | 5483 | 5495 | 5506 | 5517 | 5528 | 5540 | 5551 | 5562 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 38000" = 10° 33' 20" | | | | 3800" = 1° 3' 20" | | S. 4,685 | 550 | T. 624 | | |
| | 38100 = 10 35 0 | | | | 3810 = 1 3 30 | | | 550 | 624 | | |
| | 38200 = 10 36 40 | | | | 3820 = 1 3 40 | | | 550 | 625 | | |
| | 38300 = 10 38 20 | | | | 3830 = 1 3 50 | | | 550 | 625 | | |
| | 38400 = 10 40 0 | | | | 3840 = 1 4 0 | | | 550 | 625 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|------|-------------------|----------|------|--------|------|--------|
| 3850 | 58 5461 | 5472 | 5483 | 5495 | 5506 | 5517 | 5528 | 5540 | 5551 | 5562 | |
| 51 | 5574 | 5585 | 5596 | 5607 | 5619 | 5630 | 5641 | 5652 | 5664 | 5675 | |
| 52 | 5686 | 5698 | 5709 | 5720 | 5731 | 5743 | 5754 | 5765 | 5776 | 5788 | |
| 53 | 5799 | 5810 | 5822 | 5833 | 5844 | 5855 | 5867 | 5878 | 5889 | 5900 | |
| 54 | 5912 | 5923 | 5934 | 5946 | 5957 | 5968 | 5979 | 5991 | 6002 | 6013 | |
| 55 | 58 6024 | 6036 | 6047 | 6058 | 6069 | 6081 | 6092 | 6103 | 6114 | 6126 | |
| 56 | 6137 | 6148 | 6160 | 6171 | 6182 | 6193 | 6205 | 6216 | 6227 | 6238 | |
| 57 | 6250 | 6261 | 6272 | 6283 | 6295 | 6306 | 6317 | 6328 | 6340 | 6351 | |
| 58 | 6362 | 6373 | 6385 | 6396 | 6407 | 6419 | 6430 | 6441 | 6452 | 6464 | |
| 59 | 6475 | 6486 | 6497 | 6509 | 6520 | 6531 | 6542 | 6554 | 6565 | 6576 | |
| 3860 | 58 6587 | 6599 | 6610 | 6621 | 6632 | 6644 | 6655 | 6666 | 6677 | 6689 | |
| 61 | 6700 | 6711 | 6722 | 6734 | 6745 | 6756 | 6767 | 6779 | 6790 | 6801 | 12 |
| 62 | 6812 | 6824 | 6835 | 6846 | 6857 | 6868 | 6880 | 6891 | 6902 | 6913 | 1 1.2 |
| 63 | 6925 | 6936 | 6947 | 6958 | 6970 | 6981 | 6992 | 7003 | 7015 | 7026 | 2 2.4 |
| 64 | 7037 | 7048 | 7060 | 7071 | 7082 | 7093 | 7105 | 7116 | 7127 | 7138 | 3 3.6 |
| 65 | 58 7149 | 7161 | 7172 | 7183 | 7194 | 7206 | 7217 | 7228 | 7239 | 7251 | 4 4.8 |
| 66 | 7262 | 7273 | 7284 | 7296 | 7307 | 7318 | 7329 | 7340 | 7352 | 7363 | 5 6.0 |
| 67 | 7374 | 7385 | 7397 | 7408 | 7419 | 7430 | 7442 | 7453 | 7464 | 7475 | 6 7.2 |
| 68 | 7486 | 7498 | 7509 | 7520 | 7531 | 7543 | 7554 | 7565 | 7576 | 7588 | 7 8.4 |
| 69 | 7599 | 7610 | 7621 | 7632 | 7644 | 7655 | 7666 | 7677 | 7689 | 7700 | 8 9.6 |
| 3870 | 58 7711 | 7722 | 7733 | 7745 | 7756 | 7767 | 7778 | 7790 | 7801 | 7812 | 9 10.8 |
| 71 | 7823 | 7834 | 7846 | 7857 | 7868 | 7879 | 7890 | 7902 | 7913 | 7924 | |
| 72 | 7935 | 7947 | 7958 | 7969 | 7980 | 7991 | 8003 | 8014 | 8025 | 8036 | |
| 73 | 8047 | 8059 | 8070 | 8081 | 8092 | 8104 | 8115 | 8126 | 8137 | 8148 | |
| 74 | 8160 | 8171 | 8182 | 8193 | 8204 | 8216 | 8227 | 8238 | 8249 | 8260 | |
| 75 | 58 8272 | 8283 | 8294 | 8305 | 8317 | 8328 | 8339 | 8350 | 8361 | 8373 | |
| 76 | 8384 | 8395 | 8406 | 8417 | 8429 | 8440 | 8451 | 8462 | 8473 | 8485 | |
| 77 | 8496 | 8507 | 8518 | 8529 | 8541 | 8552 | 8563 | 8574 | 8585 | 8597 | |
| 78 | 8608 | 8619 | 8630 | 8641 | 8653 | 8664 | 8675 | 8686 | 8697 | 8709 | |
| 79 | 8720 | 8731 | 8742 | 8753 | 8765 | 8776 | 8787 | 8798 | 8809 | 8821 | |
| 3880 | 58 8832 | 8843 | 8854 | 8865 | 8876 | 8888 | 8899 | 8910 | 8921 | 8932 | |
| 81 | 8944 | 8955 | 8966 | 8977 | 8988 | 9000 | 9011 | 9022 | 9033 | 9044 | 11 |
| 82 | 9056 | 9067 | 9078 | 9089 | 9100 | 9111 | 9123 | 9134 | 9145 | 9156 | 1 1.1 |
| 83 | 9167 | 9179 | 9190 | 9201 | 9212 | 9223 | 9234 | 9246 | 9257 | 9268 | 2 2.2 |
| 84 | 9279 | 9290 | 9302 | 9313 | 9324 | 9335 | 9346 | 9357 | 9369 | 9380 | 3 3.3 |
| 85 | 58 9391 | 9402 | 9413 | 9425 | 9436 | 9447 | 9458 | 9469 | 9480 | 9492 | 4 4.4 |
| 86 | 9503 | 9514 | 9525 | 9536 | 9547 | 9559 | 9570 | 9581 | 9592 | 9603 | 5 5.5 |
| 87 | 9615 | 9626 | 9637 | 9648 | 9659 | 9670 | 9682 | 9693 | 9704 | 9715 | 6 6.6 |
| 88 | 9726 | 9737 | 9749 | 9760 | 9771 | 9782 | 9793 | 9804 | 9816 | 9827 | 7 7.7 |
| 89 | 9838 | 9849 | 9860 | 9871 | 9883 | 9894 | 9905 | 9916 | 9927 | 9938 | 8 8.8 |
| 3890 | 58 9950 | 9961 | 9972 | 9983 | 9994 | 1005 | 1017 | 1028 | 1039 | 1050 | 9 9.9 |
| 91 | 59 0061 | 0072 | 0084 | 0095 | 0106 | 0117 | 0128 | 0139 | 0151 | 0162 | |
| 92 | 0173 | 0184 | 0195 | 0206 | 0217 | 0229 | 0240 | 0251 | 0262 | 0273 | |
| 93 | 0284 | 0296 | 0307 | 0318 | 0329 | 0340 | 0351 | 0362 | 0374 | 0385 | |
| 94 | 0396 | 0407 | 0418 | 0429 | 0441 | 0452 | 0463 | 0474 | 0485 | 0496 | |
| 95 | 59 0507 | 0519 | 0530 | 0541 | 0552 | 0563 | 0574 | 0586 | 0597 | 0608 | |
| 96 | 0619 | 0630 | 0641 | 0652 | 0664 | 0675 | 0686 | 0697 | 0708 | 0719 | |
| 97 | 0730 | 0742 | 0753 | 0764 | 0775 | 0786 | 0797 | 0808 | 0820 | 0831 | |
| 98 | 0842 | 0853 | 0864 | 0875 | 0886 | 0898 | 0909 | 0920 | 0931 | 0942 | |
| 99 | 0953 | 0964 | 0976 | 0987 | 0998 | 1009 | 1020 | 1031 | 1042 | 1053 | |
| 3900 | 59 1065 | 1076 | 1087 | 1098 | 1109 | 1120 | 1131 | 1143 | 1154 | 1165 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 38500" | 10° 41' 40" | | | | | 3850" = 1° 4' 10" | S. 4,685 | 550 | T. 625 | | |
| 38600 | 10 43 20 | | | | | 3860 = 1 4 20 | | 550 | 626 | | |
| 38700 | 10 45 0 | | | | | 3870 = 1 4 30 | | 549 | 626 | | |
| 38800 | 10 46 40 | | | | | 3880 = 1 4 40 | | 549 | 626 | | |
| 38900 | 10 48 20 | | | | | 3890 = 1 4 50 | | 549 | 626 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|------------------|------|----------|------|--------|------|--------|
| 3900 | 59 1065 | 1076 | 1087 | 1098 | 1109 | 1120 | 1131 | 1143 | 1154 | 1165 | |
| 01 | 1176 | 1187 | 1198 | 1209 | 1220 | 1232 | 1243 | 1254 | 1265 | 1276 | |
| 02 | 1287 | 1298 | 1310 | 1321 | 1332 | 1343 | 1354 | 1365 | 1376 | 1387 | |
| 03 | 1399 | 1410 | 1421 | 1432 | 1443 | 1454 | 1465 | 1476 | 1488 | 1499 | |
| 04 | 1510 | 1521 | 1532 | 1543 | 1554 | 1565 | 1577 | 1588 | 1599 | 1610 | |
| 05 | 59 1621 | 1632 | 1643 | 1654 | 1666 | 1677 | 1688 | 1699 | 1710 | 1721 | |
| 06 | 1732 | 1743 | 1754 | 1766 | 1777 | 1788 | 1799 | 1810 | 1821 | 1832 | |
| 07 | 1843 | 1855 | 1866 | 1877 | 1888 | 1899 | 1910 | 1921 | 1932 | 1943 | |
| 08 | 1955 | 1966 | 1977 | 1988 | 1999 | 2010 | 2021 | 2032 | 2043 | 2055 | |
| 09 | 2066 | 2077 | 2088 | 2099 | 2110 | 2121 | 2132 | 2143 | 2155 | 2166 | |
| 3910 | 59 2177 | 2188 | 2199 | 2210 | 2221 | 2232 | 2243 | 2255 | 2266 | 2277 | |
| 11 | 2288 | 2299 | 2310 | 2321 | 2332 | 2343 | 2354 | 2366 | 2377 | 2388 | 12 |
| 12 | 2399 | 2410 | 2421 | 2432 | 2443 | 2454 | 2465 | 2477 | 2488 | 2499 | 1 1.2 |
| 13 | 2510 | 2521 | 2532 | 2543 | 2554 | 2565 | 2576 | 2588 | 2599 | 2610 | 2 2.4 |
| 14 | 2621 | 2632 | 2643 | 2654 | 2665 | 2676 | 2687 | 2698 | 2710 | 2721 | 3 3.6 |
| 15 | 59 2732 | 2743 | 2754 | 2765 | 2776 | 2787 | 2798 | 2809 | 2821 | 2832 | 4 4.8 |
| 16 | 2843 | 2854 | 2865 | 2876 | 2887 | 2898 | 2909 | 2920 | 2931 | 2942 | 5 6.0 |
| 17 | 2954 | 2965 | 2976 | 2987 | 2998 | 3009 | 3020 | 3031 | 3042 | 3053 | 6 7.2 |
| 18 | 3064 | 3076 | 3087 | 3098 | 3109 | 3120 | 3131 | 3142 | 3153 | 3164 | 7 8.4 |
| 19 | 3175 | 3186 | 3197 | 3209 | 3220 | 3231 | 3242 | 3253 | 3264 | 3275 | 8 9.6 |
| 3920 | 59 3286 | 3297 | 3308 | 3319 | 3330 | 3341 | 3353 | 3364 | 3375 | 3386 | 9 10.8 |
| 21 | 3397 | 3408 | 3419 | 3430 | 3441 | 3452 | 3463 | 3474 | 3485 | 3497 | |
| 22 | 3508 | 3519 | 3530 | 3541 | 3552 | 3563 | 3574 | 3585 | 3596 | 3607 | |
| 23 | 3618 | 3629 | 3640 | 3652 | 3663 | 3674 | 3685 | 3696 | 3707 | 3718 | |
| 24 | 3729 | 3740 | 3751 | 3762 | 3773 | 3784 | 3795 | 3806 | 3818 | 3829 | |
| 25 | 59 3840 | 3851 | 3862 | 3873 | 3884 | 3895 | 3906 | 3917 | 3928 | 3939 | |
| 26 | 3950 | 3961 | 3972 | 3983 | 3995 | 4006 | 4017 | 4028 | 4039 | 4050 | |
| 27 | 4061 | 4072 | 4083 | 4094 | 4105 | 4116 | 4127 | 4138 | 4149 | 4160 | |
| 28 | 4171 | 4183 | 4194 | 4205 | 4216 | 4227 | 4238 | 4249 | 4260 | 4271 | |
| 29 | 4282 | 4293 | 4304 | 4315 | 4326 | 4337 | 4348 | 4359 | 4370 | 4381 | |
| 3930 | 59 4393 | 4404 | 4415 | 4426 | 4437 | 4448 | 4459 | 4470 | 4481 | 4492 | |
| 31 | 4503 | 4514 | 4525 | 4536 | 4547 | 4558 | 4569 | 4580 | 4591 | 4602 | 11 |
| 32 | 4614 | 4625 | 4636 | 4647 | 4658 | 4669 | 4680 | 4691 | 4702 | 4713 | 1 1.1 |
| 33 | 4724 | 4735 | 4746 | 4757 | 4768 | 4779 | 4790 | 4801 | 4812 | 4823 | 2 2.2 |
| 34 | 4834 | 4845 | 4856 | 4867 | 4879 | 4890 | 4901 | 4912 | 4923 | 4934 | 3 3.3 |
| 35 | 59 4945 | 4956 | 4967 | 4978 | 4989 | 5000 | 5011 | 5022 | 5033 | 5044 | 4 4.4 |
| 36 | 5055 | 5066 | 5077 | 5088 | 5099 | 5110 | 5121 | 5132 | 5143 | 5154 | 5 5.5 |
| 37 | 5165 | 5176 | 5187 | 5199 | 5210 | 5221 | 5232 | 5243 | 5254 | 5265 | 6 6.6 |
| 38 | 5276 | 5287 | 5298 | 5309 | 5320 | 5331 | 5342 | 5353 | 5364 | 5375 | 7 7.7 |
| 39 | 5386 | 5397 | 5408 | 5419 | 5430 | 5441 | 5452 | 5463 | 5474 | 5485 | 8 8.8 |
| 3940 | 59 5496 | 5507 | 5518 | 5529 | 5540 | 5551 | 5562 | 5573 | 5584 | 5595 | 9 9.9 |
| 41 | 5606 | 5617 | 5628 | 5639 | 5651 | 5662 | 5673 | 5684 | 5695 | 5706 | |
| 42 | 5717 | 5728 | 5739 | 5750 | 5761 | 5772 | 5783 | 5794 | 5805 | 5816 | |
| 43 | 5827 | 5838 | 5849 | 5860 | 5871 | 5882 | 5893 | 5904 | 5915 | 5926 | |
| 44 | 5937 | 5948 | 5959 | 5970 | 5981 | 5992 | 6003 | 6014 | 6025 | 6036 | |
| 45 | 59 6047 | 6058 | 6069 | 6080 | 6091 | 6102 | 6113 | 6124 | 6135 | 6146 | |
| 46 | 6157 | 6168 | 6179 | 6190 | 6201 | 6212 | 6223 | 6234 | 6245 | 6256 | |
| 47 | 6267 | 6278 | 6289 | 6300 | 6311 | 6322 | 6333 | 6344 | 6355 | 6366 | |
| 48 | 6377 | 6388 | 6399 | 6410 | 6421 | 6432 | 6443 | 6454 | 6465 | 6476 | |
| 49 | 6487 | 6498 | 6509 | 6520 | 6531 | 6542 | 6553 | 6564 | 6575 | 6586 | |
| 3950 | 59 6597 | 6608 | 6619 | 6630 | 6641 | 6652 | 6663 | 6674 | 6685 | 6696 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 39000" = 10° 50' 0" | | | | 3900" = 1° 5' 0" | | S. 4.685 | 549 | T. 627 | | |
| | 39100 = 10 51 40 | | | | 3910 = 1 5 10 | | | 549 | 627 | | |
| | 39200 = 10 53 20 | | | | 3920 = 1 5 20 | | | 549 | 627 | | |
| | 39300 = 10 55 0 | | | | 3930 = 1 5 30 | | | 549 | 627 | | |
| | 39400 = 10 56 40 | | | | 3940 = 1 5 40 | | | 548 | 628 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|-------------------|------|----------|------|--------|------|-------|
| 3950 | 59 6597 | 6608 | 6619 | 6630 | 6641 | 6652 | 6663 | 6674 | 6685 | 6696 | |
| 51 | 6707 | 6718 | 6729 | 6740 | 6751 | 6762 | 6773 | 6784 | 6795 | 6806 | |
| 52 | 6817 | 6828 | 6839 | 6850 | 6861 | 6872 | 6883 | 6894 | 6905 | 6916 | |
| 53 | 6927 | 6938 | 6949 | 6960 | 6971 | 6982 | 6993 | 7004 | 7015 | 7026 | |
| 54 | 7037 | 7048 | 7059 | 7070 | 7081 | 7092 | 7103 | 7114 | 7125 | 7136 | |
| 55 | 59 7146 | 7157 | 7168 | 7179 | 7190 | 7201 | 7212 | 7223 | 7234 | 7245 | |
| 56 | 7256 | 7267 | 7278 | 7289 | 7300 | 7311 | 7322 | 7333 | 7344 | 7355 | |
| 57 | 7366 | 7377 | 7388 | 7399 | 7410 | 7421 | 7432 | 7443 | 7454 | 7465 | |
| 58 | 7476 | 7487 | 7498 | 7509 | 7520 | 7531 | 7542 | 7553 | 7564 | 7575 | |
| 59 | 7586 | 7596 | 7607 | 7618 | 7629 | 7640 | 7651 | 7662 | 7673 | 7684 | |
| 3960 | 59 7695 | 7706 | 7717 | 7728 | 7739 | 7750 | 7761 | 7772 | 7783 | 7794 | |
| 61 | 7805 | 7816 | 7827 | 7838 | 7849 | 7860 | 7871 | 7882 | 7893 | 7904 | II |
| 62 | 7914 | 7925 | 7936 | 7947 | 7958 | 7969 | 7980 | 7991 | 8002 | 8013 | 1 1.1 |
| 63 | 8024 | 8035 | 8046 | 8057 | 8068 | 8079 | 8090 | 8101 | 8112 | 8123 | 2 2.2 |
| 64 | 8134 | 8145 | 8156 | 8167 | 8177 | 8188 | 8199 | 8210 | 8221 | 8232 | 3 3.3 |
| 65 | 59 8243 | 8254 | 8265 | 8276 | 8287 | 8298 | 8309 | 8320 | 8331 | 8342 | 4 4.4 |
| 66 | 8353 | 8364 | 8375 | 8386 | 8397 | 8407 | 8418 | 8429 | 8440 | 8451 | 5 5.5 |
| 67 | 8462 | 8473 | 8484 | 8495 | 8506 | 8517 | 8528 | 8539 | 8550 | 8561 | 6 6.6 |
| 68 | 8572 | 8583 | 8594 | 8604 | 8615 | 8626 | 8637 | 8648 | 8659 | 8670 | 7 7.7 |
| 69 | 8681 | 8692 | 8703 | 8714 | 8725 | 8736 | 8747 | 8758 | 8769 | 8780 | 8 8.8 |
| 3970 | 59 8791 | 8802 | 8812 | 8823 | 8834 | 8845 | 8856 | 8867 | 8878 | 8889 | 9 9.9 |
| 71 | 8900 | 8911 | 8922 | 8933 | 8944 | 8955 | 8966 | 8976 | 8987 | 8998 | |
| 72 | 9009 | 9020 | 9031 | 9042 | 9053 | 9064 | 9075 | 9086 | 9097 | 9108 | |
| 73 | 9119 | 9129 | 9140 | 9151 | 9162 | 9173 | 9184 | 9195 | 9206 | 9217 | |
| 74 | 9228 | 9239 | 9250 | 9261 | 9272 | 9283 | 9293 | 9304 | 9315 | 9326 | |
| 75 | 59 9337 | 9348 | 9359 | 9370 | 9381 | 9392 | 9403 | 9414 | 9425 | 9435 | |
| 76 | 9446 | 9457 | 9468 | 9479 | 9490 | 9501 | 9512 | 9523 | 9534 | 9545 | |
| 77 | 9556 | 9567 | 9577 | 9588 | 9599 | 9610 | 9621 | 9632 | 9643 | 9654 | |
| 78 | 9665 | 9676 | 9687 | 9698 | 9708 | 9719 | 9730 | 9741 | 9752 | 9763 | |
| 79 | 9774 | 9785 | 9796 | 9807 | 9818 | 9829 | 9839 | 9850 | 9861 | 9872 | |
| 3980 | 59 9883 | 9894 | 9905 | 9916 | 9927 | 9938 | 9949 | 9959 | 9970 | 9981 | |
| 81 | 9992 | 0003 | 0014 | 0025 | 0036 | 0047 | 0058 | 0069 | 0079 | 0090 | IO |
| 82 | 60 0101 | 0112 | 0123 | 0134 | 0145 | 0156 | 0167 | 0178 | 0188 | 0199 | 1 1.0 |
| 83 | 0210 | 0221 | 0232 | 0243 | 0254 | 0265 | 0276 | 0287 | 0298 | 0308 | 2 2.0 |
| 84 | 0319 | 0330 | 0341 | 0352 | 0363 | 0374 | 0385 | 0396 | 0407 | 0417 | 3 3.0 |
| 85 | 60 0428 | 0439 | 0450 | 0461 | 0472 | 0483 | 0494 | 0505 | 0516 | 0526 | 4 4.0 |
| 86 | 0537 | 0548 | 0559 | 0570 | 0581 | 0592 | 0603 | 0614 | 0624 | 0635 | 5 5.0 |
| 87 | 0646 | 0657 | 0668 | 0679 | 0690 | 0701 | 0712 | 0722 | 0733 | 0744 | 6 6.0 |
| 88 | 0755 | 0766 | 0777 | 0788 | 0799 | 0810 | 0820 | 0831 | 0842 | 0853 | 7 7.0 |
| 89 | 0864 | 0875 | 0886 | 0897 | 0908 | 0918 | 0929 | 0939 | 0951 | 0962 | 8 8.0 |
| 3990 | 60 0973 | 0984 | 0995 | 1006 | 1016 | 1027 | 1038 | 1049 | 1060 | 1071 | 9 9.0 |
| 91 | 1082 | 1093 | 1103 | 1114 | 1125 | 1136 | 1147 | 1158 | 1169 | 1180 | |
| 92 | 1191 | 1201 | 1212 | 1223 | 1234 | 1245 | 1256 | 1267 | 1278 | 1288 | |
| 93 | 1299 | 1310 | 1321 | 1332 | 1343 | 1354 | 1365 | 1375 | 1386 | 1397 | |
| 94 | 1408 | 1419 | 1430 | 1441 | 1452 | 1462 | 1473 | 1484 | 1495 | 1506 | |
| 95 | 60 1517 | 1528 | 1539 | 1549 | 1560 | 1571 | 1582 | 1593 | 1604 | 1615 | |
| 96 | 1625 | 1636 | 1647 | 1658 | 1669 | 1680 | 1691 | 1702 | 1712 | 1723 | |
| 97 | 1734 | 1745 | 1756 | 1767 | 1778 | 1788 | 1799 | 1810 | 1821 | 1832 | |
| 98 | 1843 | 1854 | 1865 | 1875 | 1886 | 1897 | 1908 | 1919 | 1930 | 1941 | |
| 99 | 1951 | 1962 | 1973 | 1984 | 1995 | 2006 | 2017 | 2027 | 2038 | 2049 | |
| 4000 | 60 2060 | 2071 | 2082 | 2093 | 2103 | 2114 | 2125 | 2136 | 2147 | 2158 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 39500" = 10° 58' 20" | | | | 3950" = 1° 5' 50" | | S. 4,685 | 548 | T. 628 | | |
| | 39600 = 11 0 0 | | | | 3960 = 1 6 0 | | | 548 | 628 | | |
| | 39700 = 11 1 40 | | | | 3970 = 1 6 10 | | | 548 | 628 | | |
| | 39800 = 11 3 20 | | | | 3980 = 1 6 20 | | | 548 | 629 | | |
| | 39900 = 11 5 0 | | | | 3990 = 1 6 30 | | | 548 | 629 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------|--------|------|------|-------------------|------|----------|------|--------|------|-------|
| 4000 | 60 2060 | 2071 | 2082 | 2093 | 2103 | 2114 | 2125 | 2136 | 2147 | 2158 | |
| 01 | 2169 | 2179 | 2190 | 2201 | 2212 | 2223 | 2234 | 2245 | 2255 | 2266 | |
| 02 | 2277 | 2288 | 2299 | 2310 | 2320 | 2331 | 2342 | 2353 | 2364 | 2375 | |
| 03 | 2386 | 2396 | 2407 | 2418 | 2429 | 2440 | 2451 | 2462 | 2472 | 2483 | |
| 04 | 2494 | 2505 | 2516 | 2527 | 2537 | 2548 | 2559 | 2570 | 2581 | 2592 | |
| 05 | 60 2603 | 2613 | 2624 | 2635 | 2646 | 2657 | 2668 | 2678 | 2689 | 2700 | |
| 06 | 2711 | 2722 | 2733 | 2743 | 2754 | 2765 | 2776 | 2787 | 2798 | 2809 | |
| 07 | 2819 | 2830 | 2841 | 2852 | 2863 | 2874 | 2884 | 2895 | 2906 | 2917 | |
| 08 | 2928 | 2939 | 2949 | 2960 | 2971 | 2982 | 2993 | 3004 | 3014 | 3025 | |
| 09 | 3036 | 3047 | 3058 | 3069 | 3079 | 3090 | 3101 | 3112 | 3123 | 3134 | |
| 4010 | 60 3144 | 3155 | 3166 | 3177 | 3188 | 3199 | 3209 | 3220 | 3231 | 3242 | |
| 11 | 3253 | 3263 | 3274 | 3285 | 3296 | 3307 | 3318 | 3328 | 3339 | 3350 | II |
| 12 | 3361 | 3372 | 3383 | 3393 | 3404 | 3415 | 3426 | 3437 | 3448 | 3458 | 1 1.1 |
| 13 | 3469 | 3480 | 3491 | 3502 | 3512 | 3523 | 3534 | 3545 | 3556 | 3567 | 2 2.2 |
| 14 | 3577 | 3588 | 3599 | 3610 | 3621 | 3631 | 3642 | 3653 | 3664 | 3675 | 3 3.3 |
| 15 | 60 3686 | 3696 | 3707 | 3718 | 3729 | 3740 | 3750 | 3761 | 3772 | 3783 | 4 4.4 |
| 16 | 3794 | 3805 | 3815 | 3826 | 3837 | 3848 | 3859 | 3869 | 3880 | 3891 | 5 5.5 |
| 17 | 3902 | 3913 | 3923 | 3934 | 3945 | 3956 | 3967 | 3978 | 3988 | 3999 | 6 6.6 |
| 18 | 4010 | 4021 | 4032 | 4042 | 4053 | 4064 | 4075 | 4086 | 4096 | 4107 | 7 7.7 |
| 19 | 4118 | 4129 | 4140 | 4150 | 4161 | 4172 | 4183 | 4194 | 4204 | 4215 | 8 8.8 |
| 4020 | 60 4226 | 4237 | 4248 | 4258 | 4269 | 4280 | 4291 | 4302 | 4312 | 4323 | 9 9.9 |
| 21 | 4334 | 4345 | 4356 | 4366 | 4377 | 4388 | 4399 | 4410 | 4420 | 4431 | |
| 22 | 4442 | 4453 | 4464 | 4474 | 4485 | 4496 | 4507 | 4518 | 4528 | 4539 | |
| 23 | 4550 | 4561 | 4572 | 4582 | 4593 | 4604 | 4615 | 4626 | 4636 | 4647 | |
| 24 | 4658 | 4669 | 4680 | 4690 | 4701 | 4712 | 4723 | 4734 | 4744 | 4755 | |
| 25 | 60 4766 | 4777 | 4787 | 4798 | 4809 | 4820 | 4831 | 4841 | 4852 | 4863 | |
| 26 | 4874 | 4885 | 4895 | 4906 | 4917 | 4928 | 4938 | 4949 | 4960 | 4971 | |
| 27 | 4982 | 4992 | 5003 | 5014 | 5025 | 5036 | 5046 | 5057 | 5068 | 5079 | |
| 28 | 5089 | 5100 | 5111 | 5122 | 5133 | 5143 | 5154 | 5165 | 5176 | 5186 | |
| 29 | 5197 | 5208 | 5219 | 5230 | 5240 | 5251 | 5262 | 5273 | 5283 | 5294 | |
| 4030 | 60 5305 | 5316 | 5327 | 5337 | 5348 | 5359 | 5370 | 5380 | 5391 | 5402 | |
| 31 | 5413 | 5424 | 5434 | 5445 | 5456 | 5467 | 5477 | 5488 | 5499 | 5510 | IO |
| 32 | 5521 | 5531 | 5542 | 5553 | 5564 | 5574 | 5585 | 5596 | 5607 | 5617 | 1 1.0 |
| 33 | 5628 | 5639 | 5650 | 5661 | 5671 | 5682 | 5693 | 5704 | 5714 | 5725 | 2 2.0 |
| 34 | 5736 | 5747 | 5757 | 5768 | 5779 | 5790 | 5800 | 5811 | 5822 | 5833 | 3 3.0 |
| 35 | 60 5844 | 5854 | 5865 | 5876 | 5887 | 5897 | 5908 | 5919 | 5930 | 5940 | 4 4.0 |
| 36 | 5951 | 5962 | 5973 | 5983 | 5994 | 6005 | 6016 | 6026 | 6037 | 6048 | 5 5.0 |
| 37 | 6059 | 6070 | 6080 | 6091 | 6102 | 6113 | 6123 | 6134 | 6145 | 6156 | 6 6.0 |
| 38 | 6166 | 6177 | 6188 | 6199 | 6209 | 6220 | 6231 | 6242 | 6252 | 6263 | 7 7.0 |
| 39 | 6274 | 6285 | 6295 | 6306 | 6317 | 6328 | 6338 | 6349 | 6360 | 6371 | 8 8.0 |
| 4040 | 60 6381 | 6392 | 6403 | 6414 | 6424 | 6435 | 6446 | 6457 | 6467 | 6478 | 9 9.0 |
| 41 | 6489 | 6500 | 6510 | 6521 | 6532 | 6543 | 6553 | 6564 | 6575 | 6586 | |
| 42 | 6596 | 6607 | 6618 | 6629 | 6639 | 6650 | 6661 | 6672 | 6682 | 6693 | |
| 43 | 6704 | 6714 | 6725 | 6736 | 6747 | 6757 | 6768 | 6779 | 6790 | 6800 | |
| 44 | 6811 | 6822 | 6833 | 6843 | 6854 | 6865 | 6876 | 6886 | 6897 | 6908 | |
| 45 | 60 6919 | 6929 | 6940 | 6951 | 6961 | 6972 | 6983 | 6994 | 7004 | 7015 | |
| 46 | 7026 | 7037 | 7047 | 7058 | 7069 | 7080 | 7090 | 7101 | 7112 | 7122 | |
| 47 | 7133 | 7144 | 7155 | 7165 | 7176 | 7187 | 7198 | 7208 | 7219 | 7230 | |
| 48 | 7241 | 7251 | 7262 | 7273 | 7283 | 7294 | 7305 | 7316 | 7326 | 7337 | |
| 49 | 7348 | 7359 | 7369 | 7380 | 7391 | 7401 | 7412 | 7423 | 7434 | 7444 | |
| 4050 | 60 7455 | 7466 | 7476 | 7487 | 7498 | 7509 | 7519 | 7530 | 7541 | 7552 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 40000" = 11° | 6' 40" | | | 4000" = 1° 6' 40" | | S. 4.685 | 548 | T. 629 | | |
| | 40100" = 11° | 8 20 | | | 4010" = 1 6 50 | | | 548 | 630 | | |
| | 40200" = 11° | 10 0 | | | 4020" = 1 7 0 | | | 547 | 630 | | |
| | 40300" = 11° | 11 40 | | | 4030" = 1 7 10 | | | 547 | 630 | | |
| | 40400" = 11° | 13 20 | | | 4040" = 1 7 20 | | | 547 | 630 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------------------|-------------------|----------|------|--------|------|------|------|------|------|------|-------|
| 4050 | 60 7455 | 7466 | 7476 | 7487 | 7498 | 7509 | 7519 | 7530 | 7541 | 7552 | |
| 51 | 7562 | 7573 | 7584 | 7594 | 7605 | 7616 | 7627 | 7637 | 7648 | 7659 | |
| 52 | 7669 | 7680 | 7691 | 7702 | 7712 | 7723 | 7734 | 7744 | 7755 | 7766 | |
| 53 | 7777 | 7787 | 7798 | 7809 | 7819 | 7830 | 7841 | 7852 | 7862 | 7873 | |
| 54 | 7884 | 7894 | 7905 | 7916 | 7927 | 7937 | 7948 | 7959 | 7969 | 7980 | |
| 55 | 60 7991 | 8002 | 8012 | 8023 | 8034 | 8044 | 8055 | 8066 | 8077 | 8087 | |
| 56 | 8098 | 8109 | 8119 | 8130 | 8141 | 8151 | 8162 | 8173 | 8184 | 8194 | |
| 57 | 8205 | 8216 | 8226 | 8237 | 8248 | 8259 | 8269 | 8280 | 8291 | 8301 | |
| 58 | 8312 | 8323 | 8333 | 8344 | 8355 | 8366 | 8376 | 8387 | 8398 | 8408 | |
| 59 | 8419 | 8430 | 8440 | 8451 | 8462 | 8473 | 8483 | 8494 | 8505 | 8515 | |
| 4060 | 60 8526 | 8537 | 8547 | 8558 | 8569 | 8580 | 8590 | 8601 | 8612 | 8622 | |
| 61 | 8633 | 8644 | 8654 | 8665 | 8676 | 8686 | 8697 | 8708 | 8719 | 8729 | II |
| 62 | 8740 | 8751 | 8761 | 8772 | 8783 | 8793 | 8804 | 8815 | 8825 | 8836 | 1 I.1 |
| 63 | 8847 | 8858 | 8868 | 8879 | 8890 | 8900 | 8911 | 8922 | 8932 | 8943 | 2 2.2 |
| 64 | 8954 | 8964 | 8975 | 8986 | 8996 | 9007 | 9018 | 9028 | 9039 | 9050 | 3 3.3 |
| 65 | 60 9061 | 9071 | 9082 | 9093 | 9103 | 9114 | 9125 | 9135 | 9146 | 9157 | 4 4.4 |
| 66 | 9167 | 9178 | 9189 | 9199 | 9210 | 9221 | 9231 | 9242 | 9253 | 9263 | 5 5.5 |
| 67 | 9274 | 9285 | 9296 | 9306 | 9317 | 9328 | 9338 | 9349 | 9360 | 9370 | 6 6.6 |
| 68 | 9381 | 9392 | 9402 | 9413 | 9424 | 9434 | 9445 | 9456 | 9466 | 9477 | 7 7.7 |
| 69 | 9488 | 9498 | 9509 | 9520 | 9530 | 9541 | 9552 | 9562 | 9573 | 9584 | 8 8.8 |
| 4070 | 60 9594 | 9605 | 9616 | 9626 | 9637 | 9648 | 9658 | 9669 | 9680 | 9690 | 9 9.9 |
| 71 | 9701 | 9712 | 9722 | 9733 | 9743 | 9754 | 9765 | 9776 | 9786 | 9797 | |
| 72 | 9808 | 9818 | 9829 | 9840 | 9851 | 9862 | 9872 | 9882 | 9893 | 9904 | |
| 73 | 9914 | 9925 | 9936 | 9946 | 9957 | 9968 | 9978 | 9989 | 9990 | 9990 | |
| 74 | 61 0021 | 0032 | 0042 | 0053 | 0064 | 0074 | 0085 | 0096 | 0106 | 0117 | |
| 75 | 61 0128 | 0138 | 0149 | 0160 | 0170 | 0181 | 0192 | 0202 | 0213 | 0224 | |
| 76 | 0234 | 0245 | 0255 | 0266 | 0277 | 0287 | 0298 | 0309 | 0319 | 0330 | |
| 77 | 0341 | 0351 | 0362 | 0373 | 0383 | 0394 | 0405 | 0415 | 0426 | 0437 | |
| 78 | 0447 | 0458 | 0469 | 0479 | 0490 | 0500 | 0511 | 0522 | 0532 | 0543 | |
| 79 | 0554 | 0564 | 0575 | 0586 | 0596 | 0607 | 0618 | 0628 | 0639 | 0650 | |
| 4080 | 61 0667 | 0671 | 0681 | 0692 | 0703 | 0713 | 0724 | 0735 | 0745 | 0756 | |
| 81 | 0767 | 0777 | 0788 | 0799 | 0809 | 0820 | 0830 | 0841 | 0852 | 0862 | IO |
| 82 | 0873 | 0884 | 0894 | 0905 | 0916 | 0926 | 0937 | 0947 | 0958 | 0969 | 1 I.O |
| 83 | 0979 | 0990 | 1001 | 1011 | 1022 | 1033 | 1043 | 1054 | 1064 | 1075 | 2 2.0 |
| 84 | 1086 | 1096 | 1107 | 1118 | 1128 | 1139 | 1150 | 1160 | 1171 | 1181 | 3 3.0 |
| 85 | 61 1192 | 1203 | 1213 | 1224 | 1235 | 1245 | 1256 | 1266 | 1277 | 1288 | 4 4.0 |
| 86 | 1298 | 1309 | 1320 | 1330 | 1341 | 1352 | 1362 | 1373 | 1383 | 1394 | 5 5.0 |
| 87 | 1405 | 1415 | 1426 | 1437 | 1447 | 1458 | 1468 | 1479 | 1490 | 1500 | 6 6.0 |
| 88 | 1511 | 1522 | 1532 | 1543 | 1553 | 1564 | 1575 | 1585 | 1596 | 1606 | 7 7.0 |
| 89 | 1617 | 1628 | 1638 | 1649 | 1660 | 1670 | 1681 | 1691 | 1702 | 1713 | 8 8.0 |
| 4090 | 61 1723 | 1734 | 1745 | 1755 | 1766 | 1776 | 1787 | 1798 | 1808 | 1819 | 9 9.0 |
| 91 | 1829 | 1840 | 1851 | 1861 | 1872 | 1883 | 1893 | 1904 | 1914 | 1925 | |
| 92 | 1936 | 1946 | 1957 | 1967 | 1978 | 1989 | 1999 | 2010 | 2021 | 2031 | |
| 93 | 2042 | 2052 | 2063 | 2074 | 2084 | 2095 | 2105 | 2116 | 2127 | 2137 | |
| 94 | 2148 | 2158 | 2169 | 2180 | 2190 | 2201 | 2211 | 2222 | 2233 | 2243 | |
| 95 | 61 2254 | 2265 | 2275 | 2286 | 2296 | 2307 | 2318 | 2328 | 2339 | 2349 | |
| 96 | 2360 | 2371 | 2381 | 2392 | 2402 | 2413 | 2424 | 2434 | 2445 | 2455 | |
| 97 | 2466 | 2477 | 2487 | 2498 | 2508 | 2519 | 2530 | 2540 | 2551 | 2561 | |
| 98 | 2572 | 2583 | 2593 | 2604 | 2614 | 2625 | 2636 | 2646 | 2657 | 2667 | |
| 99 | 2678 | 2689 | 2699 | 2710 | 2720 | 2731 | 2741 | 2752 | 2763 | 2773 | |
| 4100 | 61 2784 | 2794 | 2805 | 2816 | 2826 | 2837 | 2847 | 2858 | 2869 | 2879 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 4050° = 11° 15' 0" | 4050° = 1° 7' 30" | S. 4.685 | 547 | T. 631 | | | | | | | |
| 4060° = 11 16 40 | 4060° = 1 7 40 | | 547 | 631 | | | | | | | |
| 4070° = 11 18 20 | 4070° = 1 7 50 | | 547 | 631 | | | | | | | |
| 4080° = 11 20 0 | 4080° = 1 8 0 | | 547 | 632 | | | | | | | |
| 4090° = 11 21 40 | 4090° = 1 8 10 | | 546 | 632 | | | | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|------|-------------------|------|------|------|------|---------------------|
| 4100 | 61 2784 | 2794 | 2805 | 2816 | 2826 | 2837 | 2847 | 2858 | 2869 | 2879 | |
| 01 | 2890 | 2900 | 2911 | 2922 | 2932 | 2943 | 2953 | 2964 | 2974 | 2985 | |
| 02 | 2996 | 3006 | 3017 | 3027 | 3038 | 3049 | 3059 | 3070 | 3080 | 3091 | |
| 03 | 3102 | 3112 | 3123 | 3133 | 3144 | 3154 | 3165 | 3176 | 3186 | 3197 | |
| 04 | 3207 | 3218 | 3229 | 3239 | 3250 | 3260 | 3271 | 3281 | 3292 | 3303 | |
| 05 | 61 3313 | 3324 | 3334 | 3345 | 3355 | 3366 | 3377 | 3387 | 3398 | 3408 | |
| 06 | 3419 | 3430 | 3440 | 3451 | 3461 | 3472 | 3482 | 3493 | 3504 | 3514 | |
| 07 | 3525 | 3535 | 3546 | 3556 | 3567 | 3578 | 3588 | 3599 | 3609 | 3620 | |
| 08 | 3630 | 3641 | 3652 | 3662 | 3673 | 3683 | 3694 | 3704 | 3715 | 3726 | |
| 09 | 3736 | 3747 | 3757 | 3768 | 3778 | 3789 | 3800 | 3810 | 3821 | 3831 | |
| 4110 | 61 3842 | 3852 | 3863 | 3874 | 3884 | 3895 | 3905 | 3916 | 3926 | 3937 | |
| 11 | 3947 | 3958 | 3969 | 3979 | 3990 | 4000 | 4011 | 4021 | 4032 | 4043 | II |
| 12 | 4053 | 4064 | 4074 | 4085 | 4095 | 4106 | 4116 | 4127 | 4138 | 4148 | I 1.1 |
| 13 | 4159 | 4169 | 4180 | 4190 | 4201 | 4212 | 4222 | 4233 | 4243 | 4254 | 2 2.2 |
| 14 | 4264 | 4275 | 4285 | 4296 | 4307 | 4317 | 4328 | 4338 | 4349 | 4359 | 3 3.3 |
| 15 | 61 4370 | 4380 | 4391 | 4402 | 4412 | 4423 | 4433 | 4444 | 4454 | 4465 | 4 4.4 |
| 16 | 4475 | 4486 | 4496 | 4507 | 4518 | 4528 | 4539 | 4549 | 4560 | 4570 | 5 5.5 |
| 17 | 4581 | 4591 | 4602 | 4613 | 4623 | 4634 | 4644 | 4655 | 4665 | 4676 | 6 6.6 |
| 18 | 4686 | 4697 | 4707 | 4718 | 4729 | 4739 | 4750 | 4760 | 4771 | 4781 | 7 7.7 |
| 19 | 4792 | 4802 | 4813 | 4823 | 4834 | 4845 | 4855 | 4866 | 4876 | 4887 | 8 8.8 |
| 4120 | 61 4897 | 4908 | 4918 | 4929 | 4939 | 4950 | 4960 | 4971 | 4982 | 4992 | 9 9.9 |
| 21 | 5003 | 5013 | 5024 | 5034 | 5045 | 5055 | 5066 | 5076 | 5087 | 5097 | |
| 22 | 5108 | 5119 | 5129 | 5140 | 5150 | 5161 | 5171 | 5182 | 5192 | 5203 | |
| 23 | 5213 | 5224 | 5234 | 5245 | 5255 | 5266 | 5277 | 5287 | 5298 | 5308 | |
| 24 | 5319 | 5329 | 5340 | 5350 | 5361 | 5371 | 5382 | 5392 | 5403 | 5413 | |
| 25 | 61 5421 | 5434 | 5445 | 5456 | 5466 | 5477 | 5487 | 5498 | 5508 | 5519 | |
| 26 | 5529 | 5540 | 5550 | 5561 | 5571 | 5582 | 5592 | 5603 | 5613 | 5624 | |
| 27 | 5634 | 5645 | 5656 | 5666 | 5677 | 5687 | 5698 | 5708 | 5719 | 5729 | |
| 28 | 5740 | 5750 | 5761 | 5771 | 5782 | 5792 | 5803 | 5813 | 5824 | 5834 | |
| 29 | 5845 | 5855 | 5866 | 5876 | 5887 | 5897 | 5908 | 5919 | 5929 | 5940 | |
| 4130 | 61 5950 | 5961 | 5971 | 5982 | 5992 | 6003 | 6013 | 6024 | 6034 | 6045 | |
| 31 | 6055 | 6066 | 6076 | 6087 | 6097 | 6108 | 6118 | 6129 | 6139 | 6150 | IO |
| 32 | 6160 | 6171 | 6181 | 6192 | 6202 | 6213 | 6223 | 6234 | 6244 | 6255 | I 1.0 |
| 33 | 6265 | 6276 | 6286 | 6297 | 6307 | 6318 | 6328 | 6339 | 6349 | 6360 | 2 2.0 |
| 34 | 6370 | 6381 | 6391 | 6402 | 6412 | 6423 | 6434 | 6444 | 6455 | 6465 | 3 3.0 |
| 35 | 61 6476 | 6486 | 6497 | 6507 | 6518 | 6528 | 6539 | 6549 | 6560 | 6570 | 4 4.0 |
| 36 | 6581 | 6591 | 6602 | 6612 | 6623 | 6633 | 6644 | 6654 | 6665 | 6675 | 5 5.0 |
| 37 | 6686 | 6696 | 6707 | 6717 | 6728 | 6738 | 6749 | 6759 | 6769 | 6780 | 6 6.0 |
| 38 | 6790 | 6801 | 6811 | 6822 | 6832 | 6843 | 6853 | 6864 | 6874 | 6885 | 7 7.0 |
| 39 | 6895 | 6906 | 6916 | 6927 | 6937 | 6948 | 6958 | 6969 | 6979 | 6990 | 8 8.0 |
| 4140 | 61 7000 | 7011 | 7021 | 7032 | 7042 | 7053 | 7063 | 7074 | 7084 | 7095 | 9 9.0 |
| 41 | 7105 | 7116 | 7126 | 7137 | 7147 | 7158 | 7168 | 7179 | 7189 | 7200 | |
| 42 | 7210 | 7221 | 7231 | 7242 | 7252 | 7263 | 7273 | 7283 | 7294 | 7304 | |
| 43 | 7315 | 7325 | 7336 | 7346 | 7357 | 7367 | 7378 | 7388 | 7399 | 7409 | |
| 44 | 7420 | 7430 | 7441 | 7451 | 7462 | 7472 | 7483 | 7493 | 7504 | 7514 | |
| 45 | 61 7525 | 7535 | 7545 | 7556 | 7566 | 7577 | 7587 | 7598 | 7608 | 7619 | |
| 46 | 7629 | 7640 | 7650 | 7661 | 7671 | 7682 | 7692 | 7703 | 7713 | 7724 | |
| 47 | 7734 | 7745 | 7755 | 7765 | 7776 | 7786 | 7797 | 7807 | 7818 | 7828 | |
| 48 | 7839 | 7849 | 7860 | 7870 | 7881 | 7891 | 7902 | 7912 | 7922 | 7933 | |
| 49 | 7943 | 7954 | 7964 | 7975 | 7985 | 7996 | 8006 | 8017 | 8027 | 8038 | |
| 4150 | 61 8048 | 8059 | 8069 | 8079 | 8090 | 8100 | 8111 | 8121 | 8132 | 8142 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 4100" | = 11° 23' 20" | | | | | 4100" = 1° 8' 20" | | | | | |
| 41100 | = 11 25 0 | | | | | 4110 = 1 8 30 | | | | | S. 4,685 546 T. 632 |
| 41200 | = 11 26 40 | | | | | 4120 = 1 8 40 | | | | | 546 632 |
| 41300 | = 11 28 20 | | | | | 4130 = 1 8 50 | | | | | 546 633 |
| 41400 | = 11 30 0 | | | | | 4140 = 1 9 0 | | | | | 546 633 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|--------|-----------|----------|------|--------|------|-------|
| 4150 | 61 8048 | 8059 | 8069 | 8079 | 8090 | 8100 | 8111 | 8121 | 8132 | 8142 | |
| 51 | 8153 | 8163 | 8174 | 8184 | 8195 | 8205 | 8216 | 8226 | 8236 | 8247 | |
| 52 | 8257 | 8268 | 8278 | 8289 | 8299 | 8310 | 8320 | 8331 | 8341 | 8351 | |
| 53 | 8362 | 8372 | 8383 | 8393 | 8404 | 8414 | 8425 | 8435 | 8446 | 8456 | |
| 54 | 8466 | 8477 | 8487 | 8498 | 8508 | 8519 | 8529 | 8540 | 8550 | 8561 | |
| 55 | 61 8571 | 8581 | 8592 | 8602 | 8613 | 8623 | 8634 | 8644 | 8655 | 8665 | |
| 56 | 8676 | 8686 | 8696 | 8707 | 8717 | 8728 | 8738 | 8749 | 8759 | 8770 | |
| 57 | 8780 | 8790 | 8801 | 8811 | 8822 | 8832 | 8843 | 8853 | 8864 | 8874 | |
| 58 | 8884 | 8895 | 8905 | 8916 | 8926 | 8937 | 8947 | 8958 | 8968 | 8978 | |
| 59 | 8989 | 8999 | 9010 | 9020 | 9031 | 9041 | 9052 | 9062 | 9072 | 9083 | |
| 4160 | 61 9093 | 9104 | 9114 | 9125 | 9135 | 9146 | 9156 | 9166 | 9177 | 9187 | |
| 61 | 9198 | 9208 | 9219 | 9229 | 9239 | 9250 | 9260 | 9271 | 9281 | 9292 | II |
| 62 | 9302 | 9313 | 9323 | 9333 | 9344 | 9354 | 9365 | 9375 | 9386 | 9396 | 1 1.1 |
| 63 | 9406 | 9417 | 9427 | 9438 | 9448 | 9459 | 9469 | 9479 | 9490 | 9500 | 2 2.2 |
| 64 | 9511 | 9521 | 9532 | 9542 | 9552 | 9563 | 9573 | 9584 | 9594 | 9605 | 3 3.3 |
| 65 | 61 9615 | 9625 | 9636 | 9646 | 9657 | 9667 | 9678 | 9688 | 9698 | 9709 | 4 4.4 |
| 66 | 9719 | 9730 | 9740 | 9751 | 9761 | 9771 | 9782 | 9792 | 9803 | 9813 | 5 5.5 |
| 67 | 9824 | 9834 | 9844 | 9855 | 9865 | 9876 | 9886 | 9896 | 9907 | 9917 | 6 6.6 |
| 68 | 9928 | 9938 | 9949 | 9959 | 9969 | 9980 | 9990 | 1001 | 1001 | 1002 | 7 7.7 |
| 69 | 62 0032 | 0042 | 0053 | 0063 | 0074 | 0084 | 0094 | 0105 | 0115 | 0126 | 8 8.8 |
| 4170 | 62 0136 | 0146 | 0157 | 0167 | 0178 | 0188 | 0199 | 0209 | 0219 | 0230 | 9 9.9 |
| 71 | 0240 | 0251 | 0261 | 0271 | 0282 | 0292 | 0303 | 0313 | 0323 | 0333 | |
| 72 | 0344 | 0355 | 0365 | 0376 | 0386 | 0396 | 0407 | 0417 | 0428 | 0438 | |
| 73 | 0448 | 0459 | 0469 | 0480 | 0490 | 0500 | 0511 | 0521 | 0532 | 0542 | |
| 74 | 0552 | 0563 | 0573 | 0584 | 0594 | 0604 | 0615 | 0625 | 0636 | 0646 | |
| 75 | 62 0656 | 0667 | 0677 | 0688 | 0698 | 0708 | 0719 | 0729 | 0740 | 0750 | |
| 76 | 0760 | 0771 | 0781 | 0792 | 0802 | 0812 | 0823 | 0833 | 0844 | 0854 | |
| 77 | 0864 | 0875 | 0885 | 0896 | 0906 | 0916 | 0927 | 0937 | 0948 | 0958 | |
| 78 | 0968 | 0979 | 0989 | 1000 | 1010 | 1020 | 1031 | 1041 | 1052 | 1062 | |
| 79 | 1072 | 1083 | 1093 | 1104 | 1114 | 1124 | 1135 | 1145 | 1156 | 1166 | |
| 4180 | 62 1176 | 1187 | 1197 | 1207 | 1218 | 1228 | 1239 | 1249 | 1259 | 1270 | IO |
| 81 | 1280 | 1291 | 1301 | 1311 | 1322 | 1332 | 1342 | 1353 | 1363 | 1374 | 1 1.0 |
| 82 | 1384 | 1394 | 1405 | 1415 | 1426 | 1436 | 1446 | 1457 | 1467 | 1477 | 2 2.0 |
| 83 | 1488 | 1498 | 1509 | 1519 | 1529 | 1540 | 1550 | 1561 | 1571 | 1581 | 3 3.0 |
| 84 | 1592 | 1602 | 1612 | 1623 | 1633 | 1644 | 1654 | 1664 | 1675 | 1685 | 4 4.0 |
| 85 | 62 1695 | 1706 | 1716 | 1727 | 1737 | 1747 | 1758 | 1768 | 1778 | 1789 | 5 5.0 |
| 86 | 1799 | 1810 | 1820 | 1830 | 1841 | 1851 | 1861 | 1872 | 1882 | 1893 | 6 6.0 |
| 87 | 1903 | 1913 | 1924 | 1934 | 1944 | 1955 | 1965 | 1976 | 1986 | 1996 | 7 7.0 |
| 88 | 2007 | 2017 | 2027 | 2038 | 2048 | 2059 | 2069 | 2079 | 2090 | 2100 | 8 8.0 |
| 89 | 2110 | 2121 | 2131 | 2141 | 2152 | 2162 | 2173 | 2183 | 2193 | 2204 | 9 9.0 |
| 4190 | 62 2214 | 2224 | 2235 | 2245 | 2255 | 2266 | 2276 | 2287 | 2297 | 2307 | |
| 91 | 2318 | 2328 | 2338 | 2349 | 2359 | 2369 | 2379 | 2390 | 2401 | 2411 | |
| 92 | 2421 | 2432 | 2442 | 2452 | 2463 | 2473 | 2483 | 2494 | 2504 | 2515 | |
| 93 | 2525 | 2535 | 2546 | 2556 | 2566 | 2577 | 2587 | 2597 | 2608 | 2618 | |
| 94 | 2628 | 2639 | 2649 | 2659 | 2670 | 2680 | 2691 | 2701 | 2711 | 2722 | |
| 95 | 62 2732 | 2742 | 2753 | 2763 | 2773 | 2784 | 2794 | 2804 | 2815 | 2825 | |
| 96 | 2835 | 2846 | 2856 | 2867 | 2877 | 2887 | 2898 | 2908 | 2918 | 2929 | |
| 97 | 2939 | 2949 | 2960 | 2970 | 2980 | 2991 | 3001 | 3011 | 3022 | 3032 | |
| 98 | 3042 | 3053 | 3063 | 3073 | 3084 | 3094 | 3105 | 3115 | 3125 | 3136 | |
| 99 | 3146 | 3156 | 3167 | 3177 | 3187 | 3198 | 3208 | 3218 | 3229 | 3239 | |
| 4200 | 62 3249 | 3260 | 3270 | 3280 | 3291 | 3301 | 3311 | 3322 | 3332 | 3342 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 41500" | 11° 31' 40" | | | | 41500" | 1° 9' 10" | S. 4,685 | 546 | T. 633 | | |
| 41600 | 11 33 20 | | | | 41600 | 1 9 20 | | 545 | 634 | | |
| 41700 | 11 35 0 | | | | 41700 | 1 9 30 | | 545 | 634 | | |
| 41800 | 11 36 40 | | | | 41800 | 1 9 40 | | 545 | 634 | | |
| 41900 | 11 38 20 | | | | 41900 | 1 9 50 | | 545 | 635 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|-------|-----------|------|------|--------------|--------|-------|
| 4200 | 62 3249 | 3260 | 3270 | 3280 | 3291 | 3301 | 3311 | 3322 | 3332 | 3342 | |
| 01 | 3353 | 3363 | 3373 | 3384 | 3394 | 3404 | 3415 | 3425 | 3435 | 3446 | |
| 02 | 3456 | 3466 | 3477 | 3487 | 3497 | 3508 | 3518 | 3528 | 3539 | 3549 | |
| 03 | 3559 | 3570 | 3580 | 3590 | 3601 | 3611 | 3621 | 3632 | 3642 | 3652 | |
| 04 | 3663 | 3673 | 3683 | 3694 | 3704 | 3714 | 3725 | 3735 | 3745 | 3756 | |
| 05 | 62 3766 | 3776 | 3787 | 3797 | 3807 | 3818 | 3828 | 3838 | 3849 | 3859 | |
| 06 | 3869 | 3880 | 3890 | 3900 | 3911 | 3921 | 3931 | 3942 | 3952 | 3962 | |
| 07 | 3973 | 3983 | 3993 | 4003 | 4014 | 4024 | 4034 | 4045 | 4055 | 4065 | |
| 08 | 4076 | 4086 | 4096 | 4107 | 4117 | 4127 | 4138 | 4148 | 4158 | 4169 | |
| 09 | 4179 | 4189 | 4200 | 4210 | 4220 | 4231 | 4241 | 4251 | 4261 | 4272 | |
| 4210 | 62 4282 | 4292 | 4303 | 4313 | 4323 | 4334 | 4344 | 4354 | 4365 | 4375 | |
| 11 | 4385 | 4396 | 4406 | 4416 | 4426 | 4437 | 4447 | 4457 | 4468 | 4478 | 11 |
| 12 | 4488 | 4499 | 4509 | 4519 | 4530 | 4540 | 4550 | 4561 | 4571 | 4581 | 1 1.1 |
| 13 | 4591 | 4602 | 4612 | 4622 | 4633 | 4643 | 4653 | 4664 | 4674 | 4684 | 2 2.2 |
| 14 | 4695 | 4705 | 4715 | 4725 | 4736 | 4746 | 4756 | 4767 | 4777 | 4787 | 3 3.3 |
| 15 | 62 4798 | 4808 | 4818 | 4828 | 4839 | 4849 | 4859 | 4870 | 4880 | 4890 | 4 4.4 |
| 16 | 4901 | 4911 | 4921 | 4932 | 4942 | 4952 | 4962 | 4973 | 4983 | 4993 | 5 5.5 |
| 17 | 5004 | 5014 | 5024 | 5034 | 5045 | 5055 | 5065 | 5076 | 5086 | 5096 | 6 6.6 |
| 18 | 5107 | 5117 | 5127 | 5137 | 5148 | 5158 | 5168 | 5179 | 5189 | 5199 | 7 7.7 |
| 19 | 5210 | 5220 | 5230 | 5240 | 5251 | 5261 | 5271 | 5282 | 5292 | 5302 | 8 8.8 |
| 4220 | 62 5312 | 5323 | 5333 | 5343 | 5354 | 5364 | 5374 | 5384 | 5395 | 5405 | 9 9.9 |
| 21 | 5415 | 5426 | 5436 | 5446 | 5457 | 5467 | 5477 | 5487 | 5498 | 5508 | |
| 22 | 5518 | 5529 | 5539 | 5549 | 5559 | 5570 | 5580 | 5590 | 5601 | 5611 | |
| 23 | 5621 | 5631 | 5642 | 5652 | 5662 | 5672 | 5683 | 5693 | 5703 | 5714 | |
| 24 | 5724 | 5734 | 5744 | 5755 | 5765 | 5775 | 5786 | 5796 | 5806 | 5816 | |
| 25 | 62 5827 | 5837 | 5847 | 5858 | 5868 | 5878 | 5888 | 5899 | 5909 | 5919 | |
| 26 | 5929 | 5940 | 5950 | 5960 | 5971 | 5981 | 5991 | 6001 | 6012 | 6022 | |
| 27 | 6032 | 6043 | 6053 | 6063 | 6073 | 6084 | 6094 | 6104 | 6114 | 6125 | |
| 28 | 6135 | 6145 | 6156 | 6166 | 6176 | 6186 | 6197 | 6207 | 6217 | 6227 | |
| 29 | 6238 | 6248 | 6258 | 6268 | 6278 | 6288 | 6298 | 6308 | 6318 | 6328 | |
| 4230 | 62 6341 | 6351 | 6361 | 6371 | 6381 | 6391 | 6401 | 6411 | 6421 | 6431 | |
| 31 | 6443 | 6453 | 6464 | 6474 | 6484 | 6494 | 6505 | 6515 | 6525 | 6535 | 10 |
| 32 | 6546 | 6556 | 6566 | 6576 | 6587 | 6597 | 6607 | 6617 | 6628 | 6638 | 1 1.0 |
| 33 | 6648 | 6659 | 6669 | 6679 | 6689 | 6700 | 6710 | 6720 | 6730 | 6741 | 2 2.0 |
| 34 | 6751 | 6761 | 6771 | 6781 | 6792 | 6802 | 6812 | 6823 | 6833 | 6843 | 3 3.0 |
| 35 | 62 6853 | 6864 | 6874 | 6884 | 6894 | 6905 | 6915 | 6925 | 6935 | 6946 | 4 4.0 |
| 36 | 6956 | 6966 | 6976 | 6987 | 6997 | 7007 | 7017 | 7028 | 7038 | 7048 | 5 5.0 |
| 37 | 7058 | 7069 | 7079 | 7089 | 7099 | 7110 | 7120 | 7130 | 7140 | 7151 | 6 6.0 |
| 38 | 7161 | 7171 | 7181 | 7192 | 7202 | 7212 | 7222 | 7233 | 7243 | 7253 | 7 7.0 |
| 39 | 7263 | 7274 | 7284 | 7294 | 7304 | 7315 | 7325 | 7335 | 7345 | 7356 | 8 8.0 |
| 4240 | 62 7366 | 7376 | 7386 | 7397 | 7407 | 7417 | 7427 | 7438 | 7448 | 7458 | 9 9.0 |
| 41 | 7468 | 7479 | 7489 | 7499 | 7509 | 7519 | 7530 | 7540 | 7550 | 7560 | |
| 42 | 7571 | 7581 | 7591 | 7601 | 7612 | 7622 | 7632 | 7642 | 7653 | 7663 | |
| 43 | 7673 | 7683 | 7694 | 7704 | 7714 | 7724 | 7734 | 7745 | 7755 | 7765 | |
| 44 | 7775 | 7786 | 7796 | 7806 | 7816 | 7827 | 7837 | 7847 | 7857 | 7867 | |
| 45 | 62 7878 | 7888 | 7898 | 7908 | 7919 | 7929 | 7939 | 7949 | 7960 | 7970 | |
| 46 | 7980 | 7990 | 8000 | 8011 | 8021 | 8031 | 8041 | 8052 | 8062 | 8072 | |
| 47 | 8082 | 8092 | 8103 | 8113 | 8123 | 8133 | 8144 | 8154 | 8164 | 8174 | |
| 48 | 8185 | 8195 | 8205 | 8215 | 8225 | 8236 | 8246 | 8256 | 8266 | 8277 | |
| 49 | 8287 | 8297 | 8307 | 8317 | 8328 | 8338 | 8348 | 8358 | 8368 | 8379 | |
| 4250 | 62 8389 | 8399 | 8409 | 8420 | 8430 | 8440 | 8450 | 8460 | 8471 | 8481 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 4200" | 11° 40' 0" | | | | 4200" | 1° 10' 0" | | | S. 4,685 545 | T. 635 | |
| 42100" | 11 41 40 | | | | 4210 | 1 10 10 | | | 545 | 635 | |
| 42200" | 11 43 20 | | | | 4220 | 1 10 20 | | | 545 | 635 | |
| 42300" | 11 45 0 | | | | 4230 | 1 10 30 | | | 544 | 636 | |
| 42400" | 11 46 40 | | | | 4240 | 1 10 40 | | | 544 | 636 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|--------------|------|------|--------|
| 4250 | 62 8389 | 8399 | 8409 | 8420 | 8430 | 8440 | 8450 | 8460 | 8471 | 8481 | |
| 51 | 8491 | 8501 | 8512 | 8522 | 8532 | 8542 | 8552 | 8563 | 8573 | 8583 | |
| 52 | 8593 | 8603 | 8614 | 8624 | 8634 | 8644 | 8655 | 8665 | 8675 | 8685 | |
| 53 | 8695 | 8706 | 8716 | 8726 | 8736 | 8746 | 8757 | 8767 | 8777 | 8787 | |
| 54 | 8797 | 8808 | 8818 | 8828 | 8838 | 8849 | 8859 | 8869 | 8879 | 8889 | |
| 55 | 62 8900 | 8910 | 8920 | 8930 | 8940 | 8951 | 8961 | 8971 | 8981 | 8991 | |
| 56 | 9002 | 9012 | 9022 | 9032 | 9042 | 9053 | 9063 | 9073 | 9083 | 9093 | |
| 57 | 9104 | 9114 | 9124 | 9134 | 9144 | 9155 | 9165 | 9175 | 9185 | 9195 | |
| 58 | 9206 | 9216 | 9226 | 9236 | 9246 | 9257 | 9267 | 9277 | 9287 | 9297 | |
| 59 | 9308 | 9318 | 9328 | 9338 | 9348 | 9359 | 9369 | 9379 | 9389 | 9399 | |
| 4260 | 62 9410 | 9420 | 9430 | 9440 | 9450 | 9461 | 9471 | 9481 | 9491 | 9501 | |
| 61 | 9512 | 9522 | 9532 | 9542 | 9552 | 9562 | 9573 | 9583 | 9593 | 9603 | II |
| 62 | 9613 | 9624 | 9634 | 9644 | 9654 | 9664 | 9675 | 9685 | 9695 | 9705 | 1 1.1 |
| 63 | 9715 | 9726 | 9736 | 9746 | 9756 | 9766 | 9776 | 9787 | 9797 | 9807 | 2 2.2 |
| 64 | 9817 | 9827 | 9838 | 9848 | 9858 | 9868 | 9878 | 9888 | 9899 | 9909 | 3 3.3 |
| 65 | 62 9919 | 9929 | 9939 | 9950 | 9960 | 9970 | 9980 | 9990 | 0000 | 0011 | 4 4.4 |
| 66 | 63 0021 | 0031 | 0041 | 0051 | 0062 | 0072 | 0082 | 0092 | 0102 | 0112 | 5 5.5 |
| 67 | 0123 | 0133 | 0143 | 0153 | 0163 | 0174 | 0184 | 0194 | 0204 | 0214 | 6 6.6 |
| 68 | 0224 | 0235 | 0245 | 0255 | 0265 | 0275 | 0285 | 0296 | 0306 | 0316 | 7 7.7 |
| 69 | 0326 | 0336 | 0346 | 0357 | 0367 | 0377 | 0387 | 0397 | 0408 | 0418 | 8 8.8 |
| 4270 | 63 0428 | 0438 | 0448 | 0458 | 0469 | 0479 | 0489 | 0499 | 0509 | 0519 | 9 9.9 |
| 71 | 0530 | 0540 | 0550 | 0560 | 0570 | 0580 | 0591 | 0601 | 0611 | 0621 | |
| 72 | 0631 | 0641 | 0652 | 0662 | 0672 | 0682 | 0692 | 0702 | 0713 | 0723 | |
| 73 | 0733 | 0743 | 0753 | 0763 | 0774 | 0784 | 0794 | 0804 | 0814 | 0824 | |
| 74 | 0835 | 0845 | 0855 | 0865 | 0875 | 0885 | 0895 | 0906 | 0916 | 0926 | |
| 75 | 63 0936 | 0946 | 0956 | 0967 | 0977 | 0987 | 0997 | 1007 | 1017 | 1028 | |
| 76 | 1038 | 1048 | 1058 | 1068 | 1078 | 1088 | 1099 | 1109 | 1119 | 1129 | |
| 77 | 1139 | 1149 | 1160 | 1170 | 1180 | 1190 | 1200 | 1210 | 1220 | 1231 | |
| 78 | 1241 | 1251 | 1261 | 1271 | 1281 | 1292 | 1302 | 1312 | 1322 | 1332 | |
| 79 | 1342 | 1352 | 1363 | 1373 | 1383 | 1393 | 1403 | 1413 | 1423 | 1434 | |
| 4280 | 63 1444 | 1454 | 1464 | 1474 | 1484 | 1495 | 1505 | 1515 | 1525 | 1535 | IO |
| 81 | 1545 | 1555 | 1566 | 1576 | 1586 | 1596 | 1606 | 1616 | 1626 | 1637 | 1 1.0 |
| 82 | 1647 | 1657 | 1667 | 1677 | 1687 | 1697 | 1708 | 1718 | 1728 | 1738 | 2 2.0 |
| 83 | 1748 | 1758 | 1768 | 1778 | 1789 | 1799 | 1809 | 1819 | 1829 | 1839 | 3 3.0 |
| 84 | 1849 | 1860 | 1870 | 1880 | 1890 | 1900 | 1910 | 1920 | 1931 | 1941 | 4 4.0 |
| 85 | 63 1951 | 1961 | 1971 | 1981 | 1991 | 2001 | 2012 | 2022 | 2032 | 2042 | 5 5.0 |
| 86 | 2052 | 2062 | 2072 | 2083 | 2093 | 2103 | 2113 | 2123 | 2133 | 2143 | 6 6.0 |
| 87 | 2153 | 2164 | 2174 | 2184 | 2194 | 2204 | 2214 | 2224 | 2235 | 2245 | 7 7.0 |
| 88 | 2255 | 2265 | 2275 | 2285 | 2295 | 2305 | 2316 | 2326 | 2336 | 2346 | 8 8.0 |
| 89 | 2356 | 2366 | 2376 | 2386 | 2397 | 2407 | 2417 | 2427 | 2437 | 2447 | 9 9.0 |
| 4290 | 63 2457 | 2467 | 2478 | 2488 | 2498 | 2508 | 2518 | 2528 | 2538 | 2548 | |
| 91 | 2559 | 2569 | 2579 | 2589 | 2599 | 2609 | 2619 | 2629 | 2639 | 2650 | |
| 92 | 2660 | 2670 | 2680 | 2690 | 2700 | 2710 | 2720 | 2731 | 2741 | 2751 | |
| 93 | 2761 | 2771 | 2781 | 2791 | 2801 | 2811 | 2822 | 2832 | 2842 | 2852 | |
| 94 | 2862 | 2872 | 2882 | 2892 | 2902 | 2913 | 2923 | 2933 | 2943 | 2953 | |
| 95 | 63 2963 | 2973 | 2983 | 2994 | 3004 | 3014 | 3024 | 3034 | 3044 | 3054 | |
| 96 | 3064 | 3074 | 3084 | 3095 | 3105 | 3115 | 3125 | 3135 | 3145 | 3155 | |
| 97 | 3165 | 3175 | 3186 | 3196 | 3206 | 3216 | 3226 | 3236 | 3246 | 3256 | |
| 98 | 3266 | 3277 | 3287 | 3297 | 3307 | 3317 | 3327 | 3337 | 3347 | 3357 | |
| 99 | 3367 | 3378 | 3388 | 3398 | 3408 | 3418 | 3428 | 3438 | 3448 | 3458 | |
| 4300 | 63 3468 | 3479 | 3489 | 3499 | 3509 | 3519 | 3529 | 3539 | 3549 | 3559 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 42500 | = 11° 48' 20" | | | | 42500 | = 1° 10' 50" | | S. 4.685 544 | | | T. 636 |
| 42600 | = 11 50 0 | | | | 42600 | = 1 11 0 | | 544 | | | 637 |
| 42700 | = 11 51 40 | | | | 42700 | = 1 11 10 | | 544 | | | 637 |
| 42800 | = 11 53 20 | | | | 42800 | = 1 11 20 | | 544 | | | 637 |
| 42900 | = 11 55 0 | | | | 42900 | = 1 11 30 | | 544 | | | 637 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|---------------------|------|------|---------------------|------|------|------|-------|
| 4300 | 63 3468 | 3479 | 3489 | 3499 | 3509 | 3519 | 3529 | 3539 | 3549 | 3559 | |
| 01 | 3569 | 3580 | 3590 | 3600 | 3610 | 3620 | 3630 | 3640 | 3650 | 3660 | |
| 02 | 3670 | 3681 | 3691 | 3701 | 3711 | 3721 | 3731 | 3741 | 3751 | 3761 | |
| 03 | 3771 | 3781 | 3792 | 3802 | 3812 | 3822 | 3832 | 3842 | 3852 | 3862 | |
| 04 | 3872 | 3882 | 3892 | 3903 | 3913 | 3923 | 3933 | 3943 | 3953 | 3963 | |
| 05 | 63 3973 | 3983 | 3993 | 4003 | 4014 | 4024 | 4034 | 4044 | 4054 | 4064 | |
| 06 | 4074 | 4084 | 4094 | 4104 | 4114 | 4124 | 4135 | 4145 | 4155 | 4165 | |
| 07 | 4175 | 4185 | 4195 | 4205 | 4215 | 4225 | 4235 | 4245 | 4256 | 4266 | |
| 08 | 4276 | 4286 | 4296 | 4306 | 4316 | 4326 | 4336 | 4346 | 4356 | 4366 | |
| 09 | 4376 | 4387 | 4397 | 4407 | 4417 | 4427 | 4437 | 4447 | 4457 | 4467 | |
| 4310 | 63 4477 | 4487 | 4497 | 4507 | 4518 | 4528 | 4538 | 4548 | 4558 | 4568 | |
| 11 | 4578 | 4588 | 4598 | 4608 | 4618 | 4628 | 4638 | 4649 | 4659 | 4669 | II |
| 12 | 4679 | 4689 | 4699 | 4709 | 4719 | 4729 | 4739 | 4749 | 4759 | 4769 | 1 1.1 |
| 13 | 4779 | 4790 | 4800 | 4810 | 4820 | 4830 | 4840 | 4850 | 4860 | 4870 | 2 2.2 |
| 14 | 4880 | 4890 | 4900 | 4910 | 4920 | 4930 | 4941 | 4951 | 4961 | 4971 | 3 3.3 |
| 15 | 63 4981 | 4991 | 5001 | 5011 | 5021 | 5031 | 5041 | 5051 | 5061 | 5071 | 4 4.4 |
| 16 | 5081 | 5091 | 5102 | 5112 | 5122 | 5132 | 5142 | 5152 | 5162 | 5172 | 5 5.5 |
| 17 | 5182 | 5192 | 5202 | 5212 | 5222 | 5232 | 5242 | 5252 | 5263 | 5273 | 6 6.6 |
| 18 | 5283 | 5293 | 5303 | 5313 | 5323 | 5333 | 5343 | 5353 | 5363 | 5373 | 7 7.7 |
| 19 | 5383 | 5393 | 5403 | 5413 | 5423 | 5433 | 5444 | 5454 | 5464 | 5474 | 8 8.8 |
| 4320 | 63 5484 | 5494 | 5504 | 5514 | 5524 | 5534 | 5544 | 5554 | 5564 | 5574 | 9 9.9 |
| 21 | 5584 | 5594 | 5604 | 5614 | 5624 | 5635 | 5645 | 5655 | 5665 | 5675 | |
| 22 | 5685 | 5695 | 5705 | 5715 | 5725 | 5735 | 5745 | 5755 | 5765 | 5775 | |
| 23 | 5785 | 5795 | 5805 | 5815 | 5825 | 5835 | 5846 | 5856 | 5866 | 5876 | |
| 24 | 5886 | 5896 | 5906 | 5916 | 5926 | 5936 | 5946 | 5956 | 5966 | 5976 | |
| 25 | 63 5986 | 5996 | 6006 | 6016 | 6026 | 6036 | 6046 | 6056 | 6066 | 6076 | |
| 26 | 6087 | 6097 | 6107 | 6117 | 6127 | 6137 | 6147 | 6157 | 6167 | 6177 | |
| 27 | 6187 | 6197 | 6207 | 6217 | 6227 | 6237 | 6247 | 6257 | 6267 | 6277 | |
| 28 | 6287 | 6297 | 6307 | 6317 | 6327 | 6337 | 6347 | 6357 | 6368 | 6378 | |
| 29 | 6388 | 6398 | 6408 | 6418 | 6428 | 6438 | 6448 | 6458 | 6468 | 6478 | |
| 4330 | 63 6488 | 6498 | 6508 | 6518 | 6528 | 6538 | 6548 | 6558 | 6568 | 6578 | |
| 31 | 6588 | 6598 | 6608 | 6618 | 6628 | 6638 | 6648 | 6658 | 6668 | 6678 | IO |
| 32 | 6688 | 6698 | 6708 | 6719 | 6729 | 6739 | 6749 | 6759 | 6769 | 6779 | 1 1.0 |
| 33 | 6789 | 6799 | 6809 | 6819 | 6829 | 6839 | 6849 | 6859 | 6869 | 6879 | 2 2.0 |
| 34 | 6889 | 6899 | 6909 | 6919 | 6929 | 6939 | 6949 | 6959 | 6969 | 6979 | 3 3.0 |
| 35 | 63 6989 | 6999 | 7009 | 7019 | 7029 | 7039 | 7049 | 7059 | 7069 | 7079 | 4 4.0 |
| 36 | 7089 | 7099 | 7109 | 7119 | 7129 | 7139 | 7149 | 7159 | 7169 | 7179 | 5 5.0 |
| 37 | 7189 | 7199 | 7209 | 7219 | 7229 | 7239 | 7250 | 7260 | 7270 | 7280 | 6 6.0 |
| 38 | 7290 | 7300 | 7310 | 7320 | 7330 | 7340 | 7350 | 7360 | 7370 | 7380 | 7 7.0 |
| 39 | 7390 | 7400 | 7410 | 7420 | 7430 | 7440 | 7450 | 7460 | 7470 | 7480 | 8 8.0 |
| 4340 | 63 7490 | 7500 | 7510 | 7520 | 7530 | 7540 | 7550 | 7560 | 7570 | 7580 | 9 9.0 |
| 41 | 7590 | 7600 | 7610 | 7620 | 7630 | 7640 | 7650 | 7660 | 7670 | 7680 | |
| 42 | 7690 | 7700 | 7710 | 7720 | 7730 | 7740 | 7750 | 7760 | 7770 | 7780 | |
| 43 | 7790 | 7800 | 7810 | 7820 | 7830 | 7840 | 7850 | 7860 | 7870 | 7880 | |
| 44 | 7890 | 7900 | 7910 | 7920 | 7930 | 7940 | 7950 | 7960 | 7970 | 7980 | |
| 45 | 63 7990 | 8000 | 8010 | 8020 | 8030 | 8040 | 8050 | 8060 | 8070 | 8080 | |
| 46 | 8090 | 8100 | 8110 | 8120 | 8130 | 8140 | 8150 | 8160 | 8170 | 8180 | |
| 47 | 8190 | 8200 | 8210 | 8220 | 8230 | 8240 | 8250 | 8260 | 8270 | 8280 | |
| 48 | 8290 | 8300 | 8310 | 8319 | 8329 | 8339 | 8349 | 8359 | 8369 | 8379 | |
| 49 | 8389 | 8399 | 8409 | 8419 | 8429 | 8439 | 8449 | 8459 | 8469 | 8479 | |
| 4350 | 63 8489 | 8499 | 8509 | 8519 | 8529 | 8539 | 8549 | 8559 | 8569 | 8579 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 4300" | = 11° 56' 40" | | | 4300" = 11° 11' 40" | | | S. 4,685 543 T. 638 | | | | |
| 43100 | = 11 58 20 | | | 4310 = 11 11 50 | | | 543 638 | | | | |
| 43200 | = 12 0 0 | | | 4320 = 12 0 | | | 543 638 | | | | |
| 43300 | = 12 1 40 | | | 4330 = 12 10 | | | 543 639 | | | | |
| 43400 | = 12 3 20 | | | 4340 = 12 20 | | | 543 639 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------------------|---------|------|------|------|--------------------|------|------|----------|------|--------|-------|
| 4350 | 63 8489 | 8499 | 8509 | 8519 | 8529 | 8539 | 8549 | 8559 | 8569 | 8579 | |
| 51 | 8589 | 8599 | 8609 | 8619 | 8629 | 8639 | 8649 | 8659 | 8669 | 8679 | |
| 52 | 8689 | 8699 | 8709 | 8719 | 8729 | 8739 | 8749 | 8759 | 8769 | 8779 | |
| 53 | 8789 | 8799 | 8809 | 8819 | 8829 | 8839 | 8849 | 8858 | 8868 | 8878 | |
| 54 | 8888 | 8898 | 8908 | 8918 | 8928 | 8938 | 8948 | 8958 | 8968 | 8978 | |
| 55 | 63 8988 | 8998 | 9008 | 9018 | 9028 | 9038 | 9048 | 9058 | 9068 | 9078 | |
| 56 | 9088 | 9098 | 9108 | 9118 | 9128 | 9138 | 9148 | 9158 | 9168 | 9178 | |
| 57 | 9188 | 9198 | 9207 | 9217 | 9227 | 9237 | 9247 | 9257 | 9267 | 9277 | |
| 58 | 9287 | 9297 | 9307 | 9317 | 9327 | 9337 | 9347 | 9357 | 9367 | 9377 | |
| 59 | 9387 | 9397 | 9407 | 9417 | 9427 | 9437 | 9447 | 9457 | 9467 | 9477 | |
| 4360 | 63 9486 | 9496 | 9506 | 9516 | 9526 | 9536 | 9546 | 9556 | 9566 | 9576 | |
| 61 | 9586 | 9596 | 9606 | 9616 | 9626 | 9636 | 9646 | 9656 | 9666 | 9676 | 10 |
| 62 | 9686 | 9696 | 9706 | 9716 | 9725 | 9735 | 9745 | 9755 | 9765 | 9775 | 1 1.0 |
| 63 | 9785 | 9795 | 9805 | 9815 | 9825 | 9835 | 9845 | 9855 | 9865 | 9875 | 2 2.0 |
| 64 | 9885 | 9895 | 9905 | 9915 | 9925 | 9934 | 9944 | 9954 | 9964 | 9974 | 3 3.0 |
| 65 | 63 9984 | 9994 | 0004 | 0014 | 0024 | 0034 | 0044 | 0054 | 0064 | 0074 | 4 4.0 |
| 66 | 64 0084 | 0094 | 0104 | 0114 | 0124 | 0133 | 0143 | 0153 | 0163 | 0173 | 5 5.0 |
| 67 | 0183 | 0193 | 0203 | 0213 | 0223 | 0233 | 0243 | 0253 | 0263 | 0273 | 6 6.0 |
| 68 | 0283 | 0293 | 0303 | 0312 | 0322 | 0332 | 0342 | 0352 | 0362 | 0372 | 7 7.0 |
| 69 | 0382 | 0392 | 0402 | 0412 | 0422 | 0432 | 0442 | 0452 | 0462 | 0471 | 8 8.0 |
| 4370 | 64 0481 | 0491 | 0501 | 0511 | 0521 | 0531 | 0541 | 0551 | 0561 | 0571 | 9 9.0 |
| 71 | 0581 | 0591 | 0601 | 0611 | 0621 | 0630 | 0640 | 0650 | 0660 | 0670 | |
| 72 | 0680 | 0690 | 0700 | 0710 | 0720 | 0730 | 0740 | 0750 | 0760 | 0770 | |
| 73 | 0779 | 0789 | 0799 | 0809 | 0819 | 0829 | 0839 | 0849 | 0859 | 0869 | |
| 74 | 0879 | 0889 | 0899 | 0909 | 0918 | 0928 | 0938 | 0948 | 0958 | 0968 | |
| 75 | 64 0978 | 0988 | 0998 | 1008 | 1018 | 1028 | 1038 | 1048 | 1057 | 1067 | |
| 76 | 1077 | 1087 | 1097 | 1107 | 1117 | 1127 | 1137 | 1147 | 1157 | 1167 | |
| 77 | 1177 | 1186 | 1196 | 1206 | 1216 | 1226 | 1236 | 1246 | 1256 | 1266 | |
| 78 | 1276 | 1286 | 1296 | 1306 | 1315 | 1325 | 1335 | 1345 | 1355 | 1365 | |
| 79 | 1375 | 1385 | 1395 | 1405 | 1415 | 1425 | 1434 | 1444 | 1454 | 1464 | |
| 4380 | 64 1474 | 1484 | 1494 | 1504 | 1514 | 1524 | 1534 | 1544 | 1553 | 1563 | 9 |
| 81 | 1573 | 1583 | 1593 | 1603 | 1613 | 1623 | 1633 | 1643 | 1653 | 1662 | 1 0.9 |
| 82 | 1672 | 1682 | 1692 | 1702 | 1712 | 1722 | 1732 | 1742 | 1752 | 1762 | 2 1.8 |
| 83 | 1771 | 1781 | 1791 | 1801 | 1811 | 1821 | 1831 | 1841 | 1851 | 1861 | 3 2.7 |
| 84 | 1871 | 1880 | 1890 | 1900 | 1910 | 1920 | 1930 | 1940 | 1950 | 1960 | 4 3.6 |
| 85 | 64 1970 | 1980 | 1989 | 1999 | 2009 | 2019 | 2029 | 2039 | 2049 | 2059 | 5 4.5 |
| 86 | 2069 | 2079 | 2088 | 2098 | 2108 | 2118 | 2128 | 2138 | 2148 | 2158 | 6 5.4 |
| 87 | 2168 | 2178 | 2187 | 2197 | 2207 | 2217 | 2227 | 2237 | 2247 | 2257 | 7 6.3 |
| 88 | 2267 | 2277 | 2286 | 2296 | 2306 | 2316 | 2326 | 2336 | 2346 | 2356 | 8 7.2 |
| 89 | 2366 | 2375 | 2385 | 2395 | 2405 | 2415 | 2425 | 2435 | 2445 | 2455 | 9 8.1 |
| 4390 | 64 2465 | 2474 | 2484 | 2494 | 2504 | 2514 | 2524 | 2534 | 2544 | 2554 | |
| 91 | 2563 | 2573 | 2583 | 2593 | 2603 | 2613 | 2623 | 2633 | 2643 | 2652 | |
| 92 | 2662 | 2672 | 2682 | 2692 | 2702 | 2712 | 2722 | 2732 | 2741 | 2751 | |
| 93 | 2761 | 2771 | 2781 | 2791 | 2801 | 2811 | 2821 | 2830 | 2840 | 2850 | |
| 94 | 2860 | 2870 | 2880 | 2890 | 2900 | 2909 | 2919 | 2929 | 2939 | 2949 | |
| 95 | 64 2959 | 2969 | 2979 | 2989 | 2998 | 3008 | 3018 | 3028 | 3038 | 3048 | |
| 96 | 3058 | 3068 | 3077 | 3087 | 3097 | 3107 | 3117 | 3127 | 3137 | 3147 | |
| 97 | 3156 | 3166 | 3176 | 3186 | 3196 | 3206 | 3216 | 3226 | 3235 | 3245 | |
| 98 | 3255 | 3265 | 3275 | 3285 | 3295 | 3305 | 3314 | 3324 | 3334 | 3344 | |
| 99 | 3354 | 3364 | 3374 | 3384 | 3393 | 3403 | 3413 | 3423 | 3433 | 3443 | |
| 4400 | 64 3453 | 3463 | 3472 | 3482 | 3492 | 3502 | 3512 | 3522 | 3532 | 3542 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 4350° = 12° 5' 0" | | | | | 4350° = 1° 12' 30" | | | S. 4,685 | 543 | T. 639 | |
| 4360° = 12 6 40 | | | | | 4360° = 1 12 40 | | | | 543 | 640 | |
| 4370° = 12 8 20 | | | | | 4370° = 1 12 50 | | | | 542 | 640 | |
| 4380° = 12 10 0 | | | | | 4380° = 1 13 0 | | | | 542 | 640 | |
| 4390° = 12 11 40 | | | | | 4390° = 1 13 10 | | | | 542 | 640 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------|-------------|------|------|------|-------|------|------------|----------|------|--------|
| 4400 | 64 3453 | 3463 | 3472 | 3482 | 3492 | 3502 | 3512 | 3522 | 3532 | 3542 | |
| 01 | 3551 | 3561 | 3571 | 3581 | 3591 | 3601 | 3611 | 3620 | 3630 | 3640 | |
| 02 | 3650 | 3660 | 3670 | 3680 | 3699 | 3709 | 3719 | 3729 | 3739 | | |
| 03 | 3749 | 3759 | 3768 | 3778 | 3788 | 3798 | 3808 | 3818 | 3828 | 3837 | |
| 04 | 3847 | 3857 | 3867 | 3877 | 3887 | 3897 | 3906 | 3916 | 3926 | 3936 | |
| 05 | 64 3946 | 3956 | 3966 | 3975 | 3985 | 3995 | 4005 | 4015 | 4025 | 4035 | |
| 06 | 4044 | 4054 | 4064 | 4074 | 4084 | 4094 | 4104 | 4113 | 4123 | 4133 | |
| 07 | 4143 | 4153 | 4163 | 4173 | 4182 | 4192 | 4202 | 4212 | 4222 | 4232 | |
| 08 | 4242 | 4251 | 4261 | 4271 | 4281 | 4291 | 4301 | 4311 | 4320 | 4330 | |
| 09 | 4340 | 4350 | 4360 | 4370 | 4379 | 4389 | 4399 | 4409 | 4419 | 4429 | |
| 4410 | 64 4439 | 4448 | 4458 | 4468 | 4478 | 4488 | 4498 | 4508 | 4517 | 4527 | |
| 11 | 4537 | 4547 | 4557 | 4567 | 4576 | 4586 | 4596 | 4606 | 4616 | 4626 | |
| 12 | 4636 | 4645 | 4655 | 4665 | 4675 | 4685 | 4695 | 4704 | 4714 | 4724 | |
| 13 | 4734 | 4744 | 4754 | 4763 | 4773 | 4783 | 4793 | 4803 | 4813 | 4822 | |
| 14 | 4832 | 4842 | 4852 | 4862 | 4872 | 4882 | 4891 | 4901 | 4911 | 4921 | |
| 15 | 64 4931 | 4941 | 4950 | 4960 | 4970 | 4980 | 4990 | 5000 | 5009 | 5019 | |
| 16 | 5029 | 5039 | 5049 | 5059 | 5068 | 5078 | 5088 | 5098 | 5108 | 5118 | |
| 17 | 5127 | 5137 | 5147 | 5157 | 5167 | 5177 | 5186 | 5196 | 5206 | 5216 | |
| 18 | 5226 | 5236 | 5245 | 5255 | 5265 | 5275 | 5285 | 5295 | 5304 | 5314 | |
| 19 | 5324 | 5334 | 5344 | 5353 | 5363 | 5373 | 5383 | 5393 | 5403 | 5412 | |
| 4420 | 64 5422 | 5432 | 5442 | 5452 | 5462 | 5471 | 5481 | 5491 | 5501 | 5511 | |
| 21 | 5521 | 5530 | 5540 | 5550 | 5560 | 5570 | 5579 | 5589 | 5599 | 5609 | |
| 22 | 5619 | 5629 | 5638 | 5648 | 5658 | 5668 | 5678 | 5687 | 5697 | 5707 | |
| 23 | 5717 | 5727 | 5737 | 5746 | 5756 | 5766 | 5776 | 5786 | 5795 | 5805 | |
| 24 | 5815 | 5825 | 5835 | 5845 | 5854 | 5864 | 5874 | 5884 | 5894 | 5903 | |
| 25 | 64 5913 | 5923 | 5933 | 5943 | 5953 | 5962 | 5972 | 5982 | 5992 | 6002 | |
| 26 | 6011 | 6021 | 6031 | 6041 | 6051 | 6060 | 6070 | 6080 | 6090 | 6100 | |
| 27 | 6110 | 6119 | 6129 | 6139 | 6149 | 6159 | 6168 | 6178 | 6188 | 6198 | |
| 28 | 6208 | 6217 | 6227 | 6237 | 6247 | 6257 | 6266 | 6276 | 6286 | 6296 | |
| 29 | 6306 | 6315 | 6325 | 6335 | 6345 | 6355 | 6365 | 6374 | 6384 | 6394 | |
| 4430 | 64 6404 | 6414 | 6423 | 6433 | 6443 | 6453 | 6463 | 6472 | 6482 | 6492 | |
| 31 | 6502 | 6512 | 6521 | 6531 | 6541 | 6551 | 6561 | 6570 | 6580 | 6590 | |
| 32 | 6600 | 6610 | 6619 | 6629 | 6639 | 6649 | 6659 | 6668 | 6678 | 6688 | |
| 33 | 6698 | 6708 | 6717 | 6727 | 6737 | 6747 | 6757 | 6766 | 6776 | 6786 | |
| 34 | 6796 | 6805 | 6815 | 6825 | 6835 | 6845 | 6854 | 6864 | 6874 | 6884 | |
| 35 | 64 6894 | 6903 | 6913 | 6923 | 6933 | 6943 | 6952 | 6962 | 6972 | 6982 | |
| 36 | 6992 | 7001 | 7011 | 7021 | 7031 | 7040 | 7050 | 7060 | 7070 | 7080 | |
| 37 | 7089 | 7099 | 7109 | 7119 | 7129 | 7138 | 7148 | 7158 | 7168 | 7178 | |
| 38 | 7187 | 7197 | 7207 | 7217 | 7226 | 7236 | 7246 | 7256 | 7266 | 7275 | |
| 39 | 7285 | 7295 | 7305 | 7314 | 7324 | 7334 | 7344 | 7354 | 7363 | 7373 | |
| 4440 | 64 7383 | 7393 | 7403 | 7412 | 7422 | 7432 | 7442 | 7451 | 7461 | 7471 | |
| 41 | 7481 | 7491 | 7500 | 7510 | 7520 | 7530 | 7539 | 7549 | 7559 | 7569 | |
| 42 | 7579 | 7588 | 7598 | 7608 | 7618 | 7627 | 7637 | 7647 | 7657 | 7667 | |
| 43 | 7676 | 7686 | 7696 | 7706 | 7715 | 7725 | 7735 | 7745 | 7755 | 7764 | |
| 44 | 7774 | 7784 | 7794 | 7803 | 7813 | 7823 | 7833 | 7842 | 7852 | 7862 | |
| 45 | 64 7872 | 7882 | 7891 | 7901 | 7911 | 7921 | 7930 | 7940 | 7950 | 7960 | |
| 46 | 7969 | 7979 | 7989 | 7999 | 8009 | 8018 | 8028 | 8038 | 8048 | 8057 | |
| 47 | 8067 | 8077 | 8087 | 8096 | 8106 | 8116 | 8126 | 8135 | 8145 | 8155 | |
| 48 | 8165 | 8175 | 8184 | 8194 | 8204 | 8214 | 8223 | 8233 | 8243 | 8253 | |
| 49 | 8262 | 8272 | 8282 | 8292 | 8301 | 8311 | 8321 | 8331 | 8340 | 8350 | |
| 4450 | 64 8360 | 8370 | 8380 | 8389 | 8399 | 8409 | 8419 | 8428 | 8438 | 8448 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 44000 | = | 12° 13' 20" | | | | 44000 | = | 1° 13' 20" | S. 4.685 | 542 | T. 641 |
| 44100 | = | 12 15 0 | | | | 44100 | = | 1 13 30 | | 542 | 641 |
| 44200 | = | 12 16 40 | | | | 44200 | = | 1 13 40 | | 542 | 641 |
| 44300 | = | 12 18 20 | | | | 44300 | = | 1 13 50 | | 541 | 642 |
| 44400 | = | 12 20 0 | | | | 44400 | = | 1 14 0 | | 541 | 642 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|--------------------|------|------|--------------|------|------|--------|-------|
| 4450 | 64 8360 | 8370 | 8380 | 8389 | 8399 | 8409 | 8419 | 8428 | 8438 | 8448 | |
| 51 | 8458 | 8467 | 8477 | 8487 | 8497 | 8506 | 8516 | 8526 | 8536 | 8545 | |
| 52 | 8555 | 8565 | 8575 | 8584 | 8594 | 8604 | 8614 | 8623 | 8633 | 8643 | |
| 53 | 8653 | 8662 | 8672 | 8682 | 8692 | 8701 | 8711 | 8721 | 8731 | 8740 | |
| 54 | 8750 | 8760 | 8770 | 8779 | 8789 | 8799 | 8809 | 8818 | 8828 | 8838 | |
| 55 | 64 8848 | 8857 | 8867 | 8877 | 8887 | 8896 | 8906 | 8916 | 8926 | 8935 | |
| 56 | 8945 | 8955 | 8965 | 8974 | 8984 | 8994 | 9004 | 9013 | 9023 | 9033 | |
| 57 | 9043 | 9052 | 9062 | 9072 | 9082 | 9091 | 9101 | 9111 | 9121 | 9130 | |
| 58 | 9140 | 9150 | 9160 | 9169 | 9179 | 9189 | 9199 | 9208 | 9218 | 9228 | |
| 59 | 9237 | 9247 | 9257 | 9267 | 9276 | 9286 | 9296 | 9306 | 9315 | 9325 | |
| 4460 | 64 9335 | 9345 | 9354 | 9364 | 9374 | 9384 | 9393 | 9403 | 9413 | 9422 | |
| 61 | 9432 | 9442 | 9452 | 9461 | 9471 | 9481 | 9491 | 9500 | 9510 | 9520 | 10 |
| 62 | 9530 | 9539 | 9549 | 9559 | 9568 | 9578 | 9588 | 9598 | 9607 | 9617 | 1 1.0 |
| 63 | 9627 | 9637 | 9646 | 9656 | 9666 | 9676 | 9685 | 9695 | 9705 | 9714 | 2 2.0 |
| 64 | 9724 | 9734 | 9744 | 9753 | 9763 | 9773 | 9783 | 9792 | 9802 | 9812 | 3 3.0 |
| 65 | 64 9821 | 9831 | 9841 | 9851 | 9860 | 9870 | 9880 | 9890 | 9909 | 9919 | 4 4.0 |
| 66 | 9928 | 9938 | 9948 | 9958 | 9967 | 9977 | 9987 | 9997 | 0006 | 0016 | 5 5.0 |
| 67 | 65 0016 | 0026 | 0035 | 0045 | 0055 | 0065 | 0074 | 0084 | 0094 | 0103 | 6 6.0 |
| 68 | 0113 | 0123 | 0133 | 0142 | 0152 | 0162 | 0171 | 0181 | 0191 | 0201 | 7 7.0 |
| 69 | 0210 | 0220 | 0230 | 0240 | 0249 | 0259 | 0269 | 0278 | 0288 | 0298 | 8 8.0 |
| 4470 | 65 0308 | 0317 | 0327 | 0337 | 0346 | 0356 | 0366 | 0376 | 0385 | 0395 | 9 9.0 |
| 71 | 0405 | 0414 | 0424 | 0434 | 0444 | 0453 | 0463 | 0473 | 0482 | 0492 | |
| 72 | 0502 | 0512 | 0521 | 0531 | 0541 | 0550 | 0560 | 0570 | 0579 | 0589 | |
| 73 | 0599 | 0609 | 0618 | 0628 | 0638 | 0647 | 0657 | 0667 | 0677 | 0686 | |
| 74 | 0696 | 0706 | 0715 | 0725 | 0735 | 0745 | 0754 | 0764 | 0774 | 0783 | |
| 75 | 65 0793 | 0803 | 0812 | 0822 | 0832 | 0842 | 0851 | 0861 | 0871 | 0880 | |
| 76 | 0890 | 0900 | 0909 | 0919 | 0929 | 0939 | 0948 | 0958 | 0968 | 0977 | |
| 77 | 0987 | 0997 | 1006 | 1016 | 1026 | 1036 | 1045 | 1055 | 1065 | 1074 | |
| 78 | 1084 | 1094 | 1103 | 1113 | 1123 | 1133 | 1142 | 1152 | 1162 | 1171 | |
| 79 | 1181 | 1191 | 1200 | 1210 | 1220 | 1230 | 1239 | 1249 | 1259 | 1268 | |
| 4480 | 65 1278 | 1288 | 1297 | 1307 | 1317 | 1326 | 1336 | 1346 | 1356 | 1365 | 9 |
| 81 | 1375 | 1385 | 1394 | 1404 | 1414 | 1423 | 1433 | 1443 | 1452 | 1462 | 0.9 |
| 82 | 1472 | 1482 | 1491 | 1501 | 1511 | 1520 | 1530 | 1540 | 1549 | 1559 | 1 1.8 |
| 83 | 1569 | 1578 | 1588 | 1598 | 1607 | 1617 | 1627 | 1637 | 1646 | 1656 | 2 2.7 |
| 84 | 1666 | 1675 | 1685 | 1695 | 1704 | 1714 | 1724 | 1733 | 1743 | 1753 | 3 3.6 |
| 85 | 65 1762 | 1772 | 1782 | 1791 | 1801 | 1811 | 1821 | 1830 | 1840 | 1850 | 4 4.5 |
| 86 | 1859 | 1869 | 1879 | 1888 | 1898 | 1908 | 1917 | 1927 | 1937 | 1946 | 5 5.4 |
| 87 | 1956 | 1966 | 1975 | 1985 | 1995 | 2004 | 2014 | 2024 | 2033 | 2043 | 6 6.3 |
| 88 | 2053 | 2063 | 2072 | 2082 | 2092 | 2101 | 2111 | 2121 | 2130 | 2140 | 7 7.2 |
| 89 | 2150 | 2159 | 2169 | 2179 | 2188 | 2198 | 2208 | 2217 | 2227 | 2237 | 8 8.1 |
| 4490 | 65 2246 | 2256 | 2266 | 2275 | 2285 | 2295 | 2304 | 2314 | 2324 | 2333 | |
| 91 | 2343 | 2353 | 2362 | 2372 | 2382 | 2391 | 2401 | 2411 | 2420 | 2430 | |
| 92 | 2440 | 2449 | 2459 | 2469 | 2478 | 2488 | 2498 | 2507 | 2517 | 2527 | |
| 93 | 2536 | 2546 | 2556 | 2565 | 2575 | 2585 | 2594 | 2604 | 2614 | 2623 | |
| 94 | 2633 | 2643 | 2652 | 2662 | 2672 | 2681 | 2691 | 2701 | 2710 | 2720 | |
| 95 | 65 2730 | 2739 | 2749 | 2759 | 2768 | 2778 | 2788 | 2797 | 2807 | 2817 | |
| 96 | 2826 | 2836 | 2846 | 2855 | 2865 | 2875 | 2884 | 2894 | 2904 | 2913 | |
| 97 | 2923 | 2933 | 2942 | 2952 | 2962 | 2971 | 2981 | 2990 | 3000 | 3010 | |
| 98 | 3019 | 3029 | 3039 | 3048 | 3058 | 3068 | 3077 | 3087 | 3097 | 3106 | |
| 99 | 3116 | 3126 | 3135 | 3145 | 3155 | 3164 | 3174 | 3184 | 3193 | 3203 | |
| 4500 | 65 3213 | 3222 | 3232 | 3241 | 3251 | 3261 | 3270 | 3280 | 3290 | 3299 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 44500" | = 12° 21' 40" | | | 4450" = 1° 14' 10" | | | S. 4,685 54I | | | T. 642 | |
| 44600" | = 12 23 20 | | | 4460 = 1 14 20 | | | 54I | | | 643 | |
| 44700" | = 12 25 0 | | | 4470 = 1 14 30 | | | 54I | | | 643 | |
| 44800" | = 12 26 40 | | | 4480 = 1 14 40 | | | 54I | | | 643 | |
| 44900" | = 12 28 20 | | | 4490 = 1 14 50 | | | 54I | | | 643 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------|------|------|------|------|--------|--------|------|----------|------|--------|
| 4500 | 65 3213 | 3222 | 3232 | 3241 | 3251 | 3261 | 3270 | 3280 | 3290 | 3299 | |
| 01 | 3309 | 3319 | 3328 | 3338 | 3348 | 3357 | 3367 | 3377 | 3386 | 3396 | |
| 02 | 3405 | 3415 | 3425 | 3434 | 3444 | 3454 | 3463 | 3473 | 3483 | 3492 | |
| 03 | 3502 | 3512 | 3521 | 3531 | 3541 | 3550 | 3560 | 3569 | 3579 | 3589 | |
| 04 | 3598 | 3608 | 3618 | 3627 | 3637 | 3647 | 3656 | 3666 | 3676 | 3685 | |
| 05 | 65 3695 | 3704 | 3714 | 3724 | 3733 | 3743 | 3753 | 3762 | 3772 | 3782 | |
| 06 | 3791 | 3801 | 3810 | 3820 | 3830 | 3839 | 3849 | 3859 | 3868 | 3878 | |
| 07 | 3888 | 3897 | 3907 | 3916 | 3926 | 3936 | 3945 | 3955 | 3965 | 3974 | |
| 08 | 3984 | 3994 | 4003 | 4013 | 4022 | 4032 | 4042 | 4051 | 4061 | 4071 | |
| 09 | 4080 | 4090 | 4099 | 4109 | 4119 | 4128 | 4138 | 4148 | 4157 | 4167 | |
| 4510 | 65 4177 | 4186 | 4196 | 4205 | 4215 | 4225 | 4234 | 4244 | 4254 | 4263 | |
| 11 | 4273 | 4282 | 4292 | 4302 | 4311 | 4321 | 4331 | 4340 | 4350 | 4359 | 10 |
| 12 | 4369 | 4379 | 4388 | 4398 | 4408 | 4417 | 4427 | 4436 | 4446 | 4456 | 1 1.0 |
| 13 | 4465 | 4475 | 4485 | 4494 | 4504 | 4513 | 4523 | 4533 | 4542 | 4552 | 2 2.0 |
| 14 | 4562 | 4571 | 4581 | 4590 | 4600 | 4610 | 4619 | 4629 | 4639 | 4648 | 3 3.0 |
| 15 | 65 4658 | 4667 | 4677 | 4687 | 4696 | 4706 | 4715 | 4725 | 4735 | 4744 | 4 4.0 |
| 16 | 4754 | 4764 | 4773 | 4783 | 4792 | 4802 | 4812 | 4821 | 4831 | 4840 | 5 5.0 |
| 17 | 4850 | 4860 | 4869 | 4879 | 4889 | 4898 | 4908 | 4917 | 4927 | 4937 | 6 6.0 |
| 18 | 4946 | 4956 | 4965 | 4975 | 4985 | 4994 | 5004 | 5014 | 5023 | 5033 | 7 7.0 |
| 19 | 5042 | 5052 | 5062 | 5071 | 5081 | 5090 | 5100 | 5110 | 5119 | 5129 | 8 8.0 |
| 4520 | 65 5138 | 5148 | 5158 | 5167 | 5177 | 5186 | 5196 | 5206 | 5215 | 5225 | 9 9.0 |
| 21 | 5235 | 5244 | 5254 | 5263 | 5273 | 5283 | 5292 | 5302 | 5311 | 5321 | |
| 22 | 5331 | 5340 | 5350 | 5359 | 5369 | 5379 | 5388 | 5398 | 5407 | 5417 | |
| 23 | 5427 | 5436 | 5446 | 5455 | 5465 | 5475 | 5484 | 5494 | 5503 | 5513 | |
| 24 | 5523 | 5532 | 5542 | 5551 | 5561 | 5571 | 5580 | 5590 | 5599 | 5609 | |
| 25 | 65 5619 | 5628 | 5638 | 5647 | 5657 | 5667 | 5676 | 5686 | 5695 | 5705 | |
| 26 | 5715 | 5724 | 5734 | 5743 | 5753 | 5763 | 5772 | 5782 | 5791 | 5801 | |
| 27 | 5810 | 5820 | 5830 | 5839 | 5849 | 5858 | 5868 | 5878 | 5887 | 5897 | |
| 28 | 5906 | 5916 | 5926 | 5935 | 5945 | 5954 | 5964 | 5974 | 5983 | 5993 | |
| 29 | 6002 | 6012 | 6021 | 6031 | 6041 | 6050 | 6060 | 6069 | 6079 | 6089 | |
| 4530 | 65 6098 | 6108 | 6117 | 6127 | 6137 | 6146 | 6156 | 6165 | 6175 | 6184 | |
| 31 | 6194 | 6204 | 6213 | 6223 | 6232 | 6242 | 6252 | 6261 | 6271 | 6280 | 9 |
| 32 | 6290 | 6299 | 6309 | 6319 | 6328 | 6338 | 6347 | 6357 | 6367 | 6376 | 1 0.9 |
| 33 | 6386 | 6395 | 6405 | 6414 | 6424 | 6434 | 6443 | 6453 | 6462 | 6472 | 2 1.8 |
| 34 | 6482 | 6491 | 6501 | 6510 | 6520 | 6529 | 6539 | 6549 | 6558 | 6568 | 3 2.7 |
| 35 | 6577 | 6587 | 6596 | 6606 | 6616 | 6625 | 6635 | 6644 | 6654 | 6663 | 4 3.6 |
| 36 | 6673 | 6683 | 6692 | 6702 | 6711 | 6721 | 6730 | 6740 | 6750 | 6759 | 5 4.5 |
| 37 | 6769 | 6778 | 6788 | 6797 | 6807 | 6817 | 6826 | 6836 | 6845 | 6855 | 6 5.4 |
| 38 | 6864 | 6874 | 6884 | 6893 | 6903 | 6912 | 6922 | 6931 | 6941 | 6951 | 7 6.3 |
| 39 | 6960 | 6970 | 6979 | 6989 | 6998 | 7008 | 7018 | 7027 | 7037 | 7046 | 8 7.2 |
| 4540 | 65 7056 | 7065 | 7075 | 7085 | 7094 | 7104 | 7113 | 7123 | 7132 | 7142 | 9 8.1 |
| 41 | 7152 | 7161 | 7171 | 7180 | 7190 | 7199 | 7209 | 7218 | 7228 | 7238 | |
| 42 | 7247 | 7257 | 7266 | 7276 | 7285 | 7295 | 7304 | 7314 | 7324 | 7333 | |
| 43 | 7343 | 7352 | 7362 | 7371 | 7381 | 7391 | 7400 | 7410 | 7419 | 7429 | |
| 44 | 7438 | 7448 | 7457 | 7467 | 7477 | 7486 | 7496 | 7505 | 7515 | 7524 | |
| 45 | 65 7534 | 7543 | 7553 | 7563 | 7572 | 7582 | 7591 | 7601 | 7610 | 7620 | |
| 46 | 7629 | 7639 | 7649 | 7658 | 7668 | 7677 | 7687 | 7696 | 7706 | 7715 | |
| 47 | 7725 | 7735 | 7744 | 7754 | 7763 | 7773 | 7782 | 7792 | 7801 | 7811 | |
| 48 | 7820 | 7830 | 7840 | 7849 | 7859 | 7868 | 7878 | 7887 | 7897 | 7906 | |
| 49 | 7916 | 7925 | 7935 | 7945 | 7954 | 7964 | 7973 | 7983 | 7992 | 8002 | |
| 4550 | 65 8011 | 8021 | 8030 | 8040 | 8050 | 8059 | 8069 | 8078 | 8088 | 8097 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 45000" | 12° 30' | 0" | | | | 45000" | 1° 15' | 0" | S. 4,685 | 540 | T. 644 |
| 45100 | 12 31 | 40 | | | | 4510 | 1 15 | 10 | | 540 | 644 |
| 45200 | 12 32 | 20 | | | | 4520 | 1 15 | 20 | | 540 | 644 |
| 45300 | 12 33 | 0 | | | | 4530 | 1 15 | 30 | | 540 | 645 |
| 45400 | 12 34 | 40 | | | | 4540 | 1 15 | 40 | | 540 | 645 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|------|--------|--------------|------|------|------|----------|--------|
| 4550 | 65 8011 | 8021 | 8030 | 8040 | 8050 | 8059 | 8069 | 8078 | 8088 | 8097 | |
| 51 | 8107 | 8116 | 8126 | 8135 | 8145 | 8155 | 8164 | 8174 | 8183 | 8193 | |
| 52 | 8202 | 8212 | 8221 | 8231 | 8240 | 8250 | 8259 | 8269 | 8279 | 8288 | |
| 53 | 8298 | 8307 | 8317 | 8326 | 8336 | 8345 | 8355 | 8364 | 8374 | 8383 | |
| 54 | 8393 | 8403 | 8412 | 8422 | 8431 | 8441 | 8450 | 8460 | 8469 | 8479 | |
| 55 | 65 8488 | 8498 | 8507 | 8517 | 8527 | 8536 | 8546 | 8555 | 8565 | 8574 | |
| 56 | 8584 | 8593 | 8603 | 8612 | 8622 | 8631 | 8641 | 8650 | 8660 | 8669 | |
| 57 | 8679 | 8689 | 8698 | 8708 | 8717 | 8727 | 8736 | 8746 | 8755 | 8765 | |
| 58 | 8774 | 8784 | 8793 | 8803 | 8812 | 8822 | 8831 | 8841 | 8851 | 8860 | |
| 59 | 8879 | 8889 | 8898 | 8908 | 8917 | 8927 | 8936 | 8946 | 8955 | | |
| 4560 | 65 8965 | 8974 | 8984 | 8993 | 9003 | 9012 | 9022 | 9032 | 9041 | 9051 | |
| 61 | 9060 | 9070 | 9079 | 9089 | 9098 | 9108 | 9117 | 9127 | 9136 | 9146 | 10 |
| 62 | 9155 | 9165 | 9174 | 9184 | 9193 | 9203 | 9212 | 9222 | 9231 | 9241 | 1 |
| 63 | 9250 | 9260 | 9270 | 9279 | 9289 | 9298 | 9308 | 9317 | 9327 | 9336 | 2 |
| 64 | 9346 | 9355 | 9365 | 9374 | 9384 | 9393 | 9403 | 9412 | 9422 | 9431 | 3 |
| 65 | 65 9441 | 9450 | 9460 | 9469 | 9479 | 9488 | 9498 | 9507 | 9517 | 9526 | 4 |
| 66 | 9536 | 9545 | 9555 | 9564 | 9574 | 9583 | 9593 | 9602 | 9612 | 9622 | 5 |
| 67 | 9631 | 9641 | 9650 | 9660 | 9669 | 9679 | 9688 | 9698 | 9707 | 9717 | 6 |
| 68 | 9726 | 9736 | 9745 | 9755 | 9764 | 9774 | 9783 | 9793 | 9802 | 9812 | 7 |
| 69 | 9821 | 9831 | 9840 | 9850 | 9859 | 9869 | 9878 | 9888 | 9897 | 9907 | 8 |
| 4570 | 65 9916 | 9926 | 9935 | 9945 | 9954 | 9964 | 9973 | 9983 | 9992 | 10002 | 9 |
| 71 | 66 0011 | 0021 | 0030 | 0040 | 0049 | 0059 | 0068 | 0078 | 0087 | 0097 | |
| 72 | 0106 | 0116 | 0125 | 0135 | 0144 | 0154 | 0163 | 0173 | 0182 | 0192 | |
| 73 | 0201 | 0211 | 0220 | 0230 | 0239 | 0249 | 0258 | 0268 | 0277 | 0287 | |
| 74 | 0296 | 0306 | 0315 | 0325 | 0334 | 0344 | 0353 | 0363 | 0372 | 0382 | |
| 75 | 66 0391 | 0401 | 0410 | 0420 | 0429 | 0439 | 0448 | 0458 | 0467 | 0477 | |
| 76 | 0486 | 0496 | 0505 | 0514 | 0524 | 0533 | 0543 | 0552 | 0562 | 0571 | |
| 77 | 0581 | 0590 | 0600 | 0609 | 0619 | 0628 | 0638 | 0647 | 0657 | 0666 | |
| 78 | 0676 | 0685 | 0695 | 0704 | 0714 | 0723 | 0733 | 0742 | 0752 | 0761 | |
| 79 | 0771 | 0780 | 0790 | 0799 | 0809 | 0818 | 0828 | 0837 | 0847 | 0856 | |
| 4580 | 65 0865 | 0875 | 0884 | 0894 | 0903 | 0913 | 0922 | 0932 | 0941 | 0951 | |
| 81 | 0961 | 0971 | 0979 | 0989 | 0998 | 1008 | 1017 | 1027 | 1036 | 1046 | 9 |
| 82 | 1055 | 1065 | 1074 | 1084 | 1093 | 1102 | 1112 | 1121 | 1131 | 1140 | 1 |
| 83 | 1150 | 1159 | 1169 | 1178 | 1188 | 1197 | 1207 | 1216 | 1226 | 1235 | 2 |
| 84 | 1245 | 1254 | 1264 | 1273 | 1283 | 1292 | 1301 | 1311 | 1320 | 1330 | 3 |
| 85 | 66 1339 | 1349 | 1358 | 1368 | 1377 | 1387 | 1396 | 1406 | 1415 | 1425 | 4 |
| 86 | 1434 | 1444 | 1453 | 1462 | 1472 | 1481 | 1491 | 1500 | 1510 | 1519 | 5 |
| 87 | 1529 | 1538 | 1548 | 1557 | 1567 | 1576 | 1586 | 1595 | 1604 | 1614 | 6 |
| 88 | 1623 | 1633 | 1642 | 1652 | 1661 | 1671 | 1680 | 1690 | 1699 | 1709 | 7 |
| 89 | 1718 | 1728 | 1737 | 1746 | 1756 | 1765 | 1775 | 1784 | 1794 | 1803 | 8 |
| 4590 | 65 1813 | 1822 | 1832 | 1841 | 1851 | 1860 | 1869 | 1879 | 1888 | 1898 | 9 |
| 91 | 1907 | 1917 | 1926 | 1936 | 1945 | 1955 | 1964 | 1974 | 1983 | 1992 | |
| 92 | 2002 | 2011 | 2021 | 2030 | 2040 | 2049 | 2059 | 2068 | 2078 | 2087 | |
| 93 | 2096 | 2106 | 2115 | 2125 | 2134 | 2144 | 2153 | 2163 | 2172 | 2182 | |
| 94 | 2191 | 2200 | 2210 | 2219 | 2229 | 2238 | 2248 | 2257 | 2267 | 2276 | |
| 95 | 66 2286 | 2295 | 2304 | 2314 | 2323 | 2333 | 2342 | 2352 | 2361 | 2371 | |
| 96 | 2380 | 2389 | 2399 | 2408 | 2418 | 2427 | 2437 | 2446 | 2456 | 2465 | |
| 97 | 2475 | 2484 | 2493 | 2503 | 2512 | 2522 | 2531 | 2541 | 2550 | 2560 | |
| 98 | 2569 | 2578 | 2588 | 2597 | 2607 | 2616 | 2626 | 2635 | 2645 | 2654 | |
| 99 | 2663 | 2673 | 2682 | 2692 | 2701 | 2711 | 2720 | 2730 | 2739 | 2748 | |
| 4600 | 66 2758 | 2767 | 2777 | 2786 | 2796 | 2805 | 2814 | 2824 | 2833 | 2843 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 45500" | = 12° 38' 20" | | | | 45500" | = 1° 15' 50" | | | | S. 4.685 | T. 645 |
| 45600 | = 12 40 0 | | | | 4560 | = 1 16 0 | | | | 539 | 646 |
| 45700 | = 12 41 40 | | | | 4570 | = 1 16 10 | | | | 539 | 646 |
| 45800 | = 12 43 20 | | | | 4580 | = 1 16 20 | | | | 539 | 646 |
| 45900 | = 12 45 0 | | | | 4590 | = 1 16 30 | | | | 539 | 647 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|--------------------|------|------|----------|------|--------|-------|
| 4600 | 66 2758 | 2767 | 2777 | 2786 | 2796 | 2805 | 2814 | 2824 | 2833 | 2843 | |
| 01 | 2852 | 2862 | 2871 | 2881 | 2890 | 2899 | 2909 | 2918 | 2928 | 2937 | |
| 02 | 2947 | 2956 | 2965 | 2975 | 2984 | 2994 | 3003 | 3013 | 3022 | 3032 | |
| 03 | 3041 | 3050 | 3060 | 3069 | 3079 | 3088 | 3098 | 3107 | 3116 | 3126 | |
| 04 | 3135 | 3145 | 3154 | 3164 | 3173 | 3182 | 3192 | 3201 | 3211 | 3220 | |
| 05 | 66 3230 | 3239 | 3248 | 3258 | 3267 | 3277 | 3286 | 3296 | 3305 | 3315 | |
| 06 | 3324 | 3333 | 3343 | 3352 | 3362 | 3371 | 3381 | 3390 | 3399 | 3409 | |
| 07 | 3418 | 3428 | 3437 | 3446 | 3456 | 3465 | 3475 | 3484 | 3494 | 3503 | |
| 08 | 3512 | 3522 | 3531 | 3541 | 3550 | 3560 | 3569 | 3578 | 3588 | 3597 | |
| 09 | 3607 | 3616 | 3626 | 3635 | 3644 | 3654 | 3663 | 3673 | 3682 | 3692 | |
| 4610 | 66 3701 | 3710 | 3720 | 3729 | 3739 | 3748 | 3757 | 3767 | 3776 | 3786 | |
| 11 | 3795 | 3805 | 3814 | 3823 | 3833 | 3842 | 3852 | 3861 | 3870 | 3880 | 10 |
| 12 | 3889 | 3899 | 3908 | 3918 | 3927 | 3936 | 3946 | 3955 | 3965 | 3974 | 1 1.0 |
| 13 | 3983 | 3993 | 4002 | 4012 | 4021 | 4031 | 4040 | 4049 | 4059 | 4068 | 2 2.0 |
| 14 | 4078 | 4087 | 4096 | 4106 | 4115 | 4125 | 4134 | 4143 | 4153 | 4162 | 3 3.0 |
| 15 | 66 4172 | 4181 | 4191 | 4200 | 4209 | 4219 | 4228 | 4238 | 4247 | 4256 | 4 4.0 |
| 16 | 4266 | 4275 | 4285 | 4294 | 4303 | 4313 | 4322 | 4332 | 4341 | 4350 | 5 5.0 |
| 17 | 4360 | 4369 | 4379 | 4388 | 4397 | 4407 | 4416 | 4426 | 4435 | 4445 | 6 6.0 |
| 18 | 4454 | 4463 | 4473 | 4482 | 4492 | 4501 | 4510 | 4520 | 4529 | 4539 | 7 7.0 |
| 19 | 4548 | 4557 | 4567 | 4576 | 4586 | 4595 | 4604 | 4614 | 4623 | 4633 | 8 8.0 |
| 4620 | 66 4642 | 4651 | 4661 | 4670 | 4680 | 4689 | 4698 | 4708 | 4717 | 4727 | 9 9.0 |
| 21 | 4736 | 4745 | 4755 | 4764 | 4774 | 4783 | 4792 | 4802 | 4811 | 4821 | |
| 22 | 4830 | 4839 | 4849 | 4858 | 4868 | 4877 | 4886 | 4896 | 4905 | 4914 | |
| 23 | 4924 | 4933 | 4943 | 4952 | 4961 | 4971 | 4980 | 4990 | 4999 | 5008 | |
| 24 | 5018 | 5027 | 5037 | 5046 | 5055 | 5065 | 5074 | 5084 | 5093 | 5102 | |
| 25 | 66 5112 | 5121 | 5131 | 5140 | 5149 | 5159 | 5168 | 5177 | 5187 | 5196 | |
| 26 | 5206 | 5215 | 5224 | 5234 | 5243 | 5253 | 5262 | 5271 | 5281 | 5290 | |
| 27 | 5299 | 5309 | 5318 | 5328 | 5337 | 5346 | 5356 | 5365 | 5375 | 5384 | |
| 28 | 5393 | 5403 | 5412 | 5422 | 5431 | 5440 | 5450 | 5459 | 5468 | 5478 | |
| 29 | 5487 | 5497 | 5506 | 5515 | 5525 | 5534 | 5543 | 5553 | 5562 | 5572 | |
| 4630 | 66 5581 | 5590 | 5600 | 5609 | 5619 | 5628 | 5637 | 5647 | 5656 | 5665 | |
| 31 | 5675 | 5684 | 5694 | 5703 | 5712 | 5722 | 5731 | 5740 | 5750 | 5759 | 9 |
| 32 | 5769 | 5778 | 5787 | 5797 | 5806 | 5815 | 5825 | 5834 | 5844 | 5853 | 1 0.9 |
| 33 | 5862 | 5872 | 5881 | 5890 | 5900 | 5909 | 5919 | 5928 | 5937 | 5947 | 2 1.8 |
| 34 | 5956 | 5965 | 5975 | 5984 | 5994 | 6003 | 6012 | 6022 | 6031 | 6040 | 3 2.7 |
| 35 | 66 6050 | 6059 | 6068 | 6078 | 6087 | 6097 | 6106 | 6115 | 6125 | 6134 | 4 3.6 |
| 36 | 6143 | 6153 | 6162 | 6172 | 6181 | 6190 | 6200 | 6209 | 6218 | 6228 | 5 4.5 |
| 37 | 6237 | 6246 | 6256 | 6265 | 6275 | 6284 | 6293 | 6303 | 6312 | 6321 | 6 5.4 |
| 38 | 6331 | 6340 | 6349 | 6359 | 6368 | 6378 | 6387 | 6396 | 6406 | 6415 | 7 6.3 |
| 39 | 6424 | 6434 | 6443 | 6452 | 6462 | 6471 | 6481 | 6490 | 6499 | 6509 | 8 7.2 |
| 4640 | 66 6518 | 6527 | 6537 | 6546 | 6555 | 6565 | 6574 | 6583 | 6593 | 6602 | 9 8.1 |
| 41 | 6612 | 6621 | 6630 | 6640 | 6649 | 6658 | 6668 | 6677 | 6686 | 6696 | |
| 42 | 6705 | 6714 | 6724 | 6733 | 6743 | 6752 | 6761 | 6771 | 6780 | 6789 | |
| 43 | 6799 | 6808 | 6817 | 6827 | 6836 | 6845 | 6855 | 6864 | 6874 | 6883 | |
| 44 | 6892 | 6902 | 6911 | 6920 | 6930 | 6939 | 6948 | 6958 | 6967 | 6976 | |
| 45 | 66 6986 | 6995 | 7004 | 7014 | 7023 | 7032 | 7042 | 7051 | 7061 | 7070 | |
| 46 | 7079 | 7089 | 7098 | 7107 | 7117 | 7126 | 7135 | 7145 | 7154 | 7163 | |
| 47 | 7173 | 7182 | 7191 | 7201 | 7210 | 7219 | 7229 | 7238 | 7247 | 7257 | |
| 48 | 7266 | 7275 | 7285 | 7294 | 7303 | 7313 | 7322 | 7332 | 7341 | 7350 | |
| 49 | 7360 | 7369 | 7378 | 7388 | 7397 | 7406 | 7416 | 7425 | 7434 | 7444 | |
| 4650 | 66 7453 | 7462 | 7472 | 7481 | 7490 | 7500 | 7509 | 7518 | 7528 | 7537 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 46000" = 12° 46' 40" | | | | 4600" = 1° 16' 40" | | | S. 4,685 | 539 | T. 647 | |
| | 46100" = 12 48 20 | | | | 4610" = 1 16 50 | | | | 539 | 647 | |
| | 46200" = 12 50 0 | | | | 4620" = 1 17 0 | | | | 539 | 648 | |
| | 46300" = 12 51 40 | | | | 4630" = 1 17 10 | | | | 538 | 648 | |
| | 46400" = 12 53 20 | | | | 4640" = 1 17 20 | | | | 538 | 648 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|------|-------|--------------|----------|------|--------|-------|
| 4650 | 66 7453 | 7462 | 7472 | 7481 | 7490 | 7500 | 7509 | 7518 | 7528 | 7537 | |
| 51 | 7546 | 7556 | 7565 | 7574 | 7584 | 7593 | 7602 | 7612 | 7621 | 7630 | |
| 52 | 7640 | 7649 | 7658 | 7668 | 7677 | 7686 | 7696 | 7705 | 7714 | 7724 | |
| 53 | 7733 | 7742 | 7752 | 7761 | 7770 | 7780 | 7789 | 7798 | 7808 | 7817 | |
| 54 | 7826 | 7836 | 7845 | 7854 | 7864 | 7873 | 7882 | 7892 | 7901 | 7910 | |
| 55 | 66 7920 | 7929 | 7938 | 7948 | 7957 | 7966 | 7976 | 7985 | 7994 | 8004 | |
| 56 | 8013 | 8022 | 8032 | 8041 | 8050 | 8060 | 8069 | 8078 | 8088 | 8097 | |
| 57 | 8106 | 8116 | 8125 | 8134 | 8144 | 8153 | 8162 | 8172 | 8181 | 8190 | |
| 58 | 8199 | 8209 | 8218 | 8227 | 8237 | 8246 | 8255 | 8265 | 8274 | 8283 | |
| 59 | 8293 | 8302 | 8311 | 8321 | 8330 | 8339 | 8349 | 8358 | 8367 | 8377 | |
| 4660 | 66 8386 | 8395 | 8405 | 8414 | 8423 | 8433 | 8442 | 8451 | 8460 | 8470 | |
| 61 | 8479 | 8488 | 8498 | 8507 | 8516 | 8526 | 8535 | 8544 | 8554 | 8563 | 10 |
| 62 | 8572 | 8582 | 8591 | 8600 | 8610 | 8619 | 8628 | 8637 | 8647 | 8656 | 1 1.0 |
| 63 | 8665 | 8675 | 8684 | 8693 | 8703 | 8712 | 8721 | 8731 | 8740 | 8749 | 2 2.0 |
| 64 | 8759 | 8768 | 8777 | 8786 | 8796 | 8805 | 8814 | 8824 | 8833 | 8842 | 3 3.0 |
| 65 | 66 8852 | 8861 | 8870 | 8880 | 8889 | 8898 | 8908 | 8917 | 8926 | 8935 | 4 4.0 |
| 66 | 8945 | 8954 | 8963 | 8973 | 8982 | 8991 | 9001 | 9010 | 9019 | 9028 | 5 5.0 |
| 67 | 9038 | 9047 | 9056 | 9066 | 9075 | 9084 | 9094 | 9103 | 9112 | 9122 | 6 6.0 |
| 68 | 9131 | 9140 | 9149 | 9159 | 9168 | 9177 | 9187 | 9196 | 9205 | 9215 | 7 7.0 |
| 69 | 9224 | 9233 | 9242 | 9252 | 9261 | 9270 | 9280 | 9289 | 9298 | 9308 | 8 8.0 |
| 4670 | 66 9317 | 9326 | 9335 | 9345 | 9354 | 9363 | 9373 | 9382 | 9391 | 9401 | 9 9.0 |
| 71 | 9410 | 9419 | 9428 | 9438 | 9447 | 9456 | 9466 | 9475 | 9484 | 9494 | |
| 72 | 9503 | 9512 | 9521 | 9531 | 9540 | 9549 | 9559 | 9568 | 9577 | 9586 | |
| 73 | 9596 | 9605 | 9614 | 9624 | 9633 | 9642 | 9652 | 9661 | 9670 | 9679 | |
| 74 | 9689 | 9698 | 9707 | 9717 | 9726 | 9735 | 9744 | 9754 | 9763 | 9772 | |
| 75 | 66 9782 | 9791 | 9800 | 9809 | 9819 | 9828 | 9837 | 9847 | 9856 | 9865 | |
| 76 | 9875 | 9884 | 9893 | 9902 | 9912 | 9921 | 9930 | 9940 | 9949 | 9958 | |
| 77 | 9967 | 9977 | 9986 | 9995 | 0005 | 0014 | 0023 | 0032 | 0042 | 0051 | |
| 78 | 67 0060 | 0070 | 0079 | 0088 | 0097 | 0107 | 0116 | 0125 | 0134 | 0144 | |
| 79 | 0153 | 0162 | 0172 | 0181 | 0190 | 0199 | 0209 | 0218 | 0227 | 0237 | |
| 4680 | 67 0246 | 0255 | 0264 | 0274 | 0283 | 0292 | 0302 | 0311 | 0320 | 0329 | 9 |
| 81 | 0339 | 0348 | 0357 | 0366 | 0376 | 0385 | 0394 | 0404 | 0413 | 0422 | 0.9 |
| 82 | 0431 | 0441 | 0450 | 0459 | 0469 | 0478 | 0487 | 0496 | 0505 | 0515 | 1 1.8 |
| 83 | 0524 | 0533 | 0543 | 0552 | 0561 | 0571 | 0580 | 0589 | 0598 | 0608 | 2 2.7 |
| 84 | 0617 | 0626 | 0635 | 0645 | 0654 | 0663 | 0673 | 0682 | 0691 | 0700 | 3 3.6 |
| 85 | 67 0710 | 0719 | 0728 | 0737 | 0747 | 0756 | 0765 | 0774 | 0784 | 0793 | 4 4.5 |
| 86 | 0802 | 0812 | 0821 | 0830 | 0839 | 0849 | 0858 | 0867 | 0876 | 0886 | 5 5.4 |
| 87 | 0895 | 0904 | 0913 | 0923 | 0932 | 0941 | 0951 | 0960 | 0969 | 0978 | 6 6.3 |
| 88 | 0988 | 0997 | 1006 | 1015 | 1025 | 1034 | 1043 | 1052 | 1062 | 1071 | 7 7.2 |
| 89 | 1080 | 1089 | 1099 | 1108 | 1117 | 1127 | 1136 | 1145 | 1154 | 1164 | 8 8.1 |
| 4690 | 67 1173 | 1182 | 1191 | 1201 | 1210 | 1219 | 1228 | 1238 | 1247 | 1256 | |
| 91 | 1265 | 1275 | 1284 | 1293 | 1302 | 1312 | 1321 | 1330 | 1339 | 1349 | |
| 92 | 1358 | 1367 | 1377 | 1386 | 1395 | 1404 | 1414 | 1423 | 1432 | 1441 | |
| 93 | 1451 | 1460 | 1469 | 1478 | 1488 | 1497 | 1506 | 1515 | 1525 | 1534 | |
| 94 | 1543 | 1552 | 1562 | 1571 | 1580 | 1589 | 1599 | 1608 | 1617 | 1626 | |
| 95 | 67 1636 | 1645 | 1654 | 1663 | 1673 | 1682 | 1691 | 1700 | 1710 | 1719 | |
| 96 | 1728 | 1737 | 1747 | 1756 | 1765 | 1774 | 1784 | 1793 | 1802 | 1811 | |
| 97 | 1821 | 1830 | 1839 | 1848 | 1858 | 1867 | 1876 | 1885 | 1895 | 1904 | |
| 98 | 1913 | 1922 | 1932 | 1941 | 1950 | 1959 | 1968 | 1978 | 1987 | 1996 | |
| 99 | 2005 | 2015 | 2024 | 2033 | 2042 | 2052 | 2061 | 2070 | 2079 | 2089 | |
| 4700 | 67 2098 | 2107 | 2116 | 2126 | 2135 | 2144 | 2153 | 2163 | 2172 | 2181 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 46500 | = 12° 55' 0" | | | | | 46500 | = 1° 17' 30" | S. 4.685 | 538 | T. 648 | |
| 46600 | = 12 56 40 | | | | | 46600 | = 1 17 40 | | 538 | 649 | |
| 46700 | = 12 58 20 | | | | | 46700 | = 1 17 50 | | 538 | 649 | |
| 46800 | = 13 0 0 | | | | | 46800 | = 1 18 0 | | 538 | 649 | |
| 46900 | = 13 1 40 | | | | | 46900 | = 1 18 10 | | 537 | 650 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|------|--------|-------------|----------|------|--------|-------|
| 4700 | 67 2098 | 2107 | 2116 | 2126 | 2135 | 2144 | 2153 | 2163 | 2172 | 2181 | |
| 01 | 2190 | 2199 | 2209 | 2218 | 2227 | 2236 | 2246 | 2255 | 2264 | 2273 | |
| 02 | 2283 | 2292 | 2301 | 2310 | 2320 | 2329 | 2338 | 2347 | 2357 | 2366 | |
| 03 | 2375 | 2384 | 2393 | 2403 | 2412 | 2421 | 2430 | 2440 | 2449 | 2458 | |
| 04 | 2467 | 2477 | 2486 | 2495 | 2504 | 2513 | 2523 | 2532 | 2541 | 2550 | |
| 05 | 67 2560 | 2569 | 2578 | 2587 | 2597 | 2606 | 2615 | 2624 | 2633 | 2643 | |
| 06 | 2652 | 2661 | 2670 | 2680 | 2689 | 2698 | 2707 | 2717 | 2726 | 2735 | |
| 07 | 2744 | 2753 | 2763 | 2772 | 2781 | 2790 | 2800 | 2809 | 2818 | 2827 | |
| 08 | 2836 | 2846 | 2855 | 2864 | 2873 | 2883 | 2892 | 2901 | 2910 | 2919 | |
| 09 | 2929 | 2938 | 2947 | 2956 | 2966 | 2975 | 2984 | 2993 | 3002 | 3012 | |
| 4710 | 67 3021 | 3030 | 3039 | 3049 | 3058 | 3067 | 3076 | 3085 | 3095 | 3104 | |
| 11 | 3113 | 3122 | 3132 | 3141 | 3150 | 3159 | 3168 | 3178 | 3187 | 3196 | 10 |
| 12 | 3205 | 3214 | 3224 | 3233 | 3242 | 3251 | 3261 | 3270 | 3279 | 3288 | 1 1.0 |
| 13 | 3297 | 3307 | 3316 | 3325 | 3334 | 3344 | 3353 | 3362 | 3371 | 3380 | 2 2.0 |
| 14 | 3390 | 3399 | 3408 | 3417 | 3426 | 3436 | 3445 | 3454 | 3463 | 3472 | 3 3.0 |
| 15 | 67 3482 | 3491 | 3500 | 3509 | 3519 | 3528 | 3537 | 3546 | 3555 | 3565 | 4 4.0 |
| 16 | 3574 | 3583 | 3592 | 3601 | 3611 | 3620 | 3629 | 3638 | 3647 | 3657 | 5 5.0 |
| 17 | 3666 | 3675 | 3684 | 3693 | 3703 | 3712 | 3721 | 3730 | 3740 | 3749 | 6 6.0 |
| 18 | 3758 | 3767 | 3776 | 3786 | 3795 | 3804 | 3813 | 3822 | 3832 | 3841 | 7 7.0 |
| 19 | 3850 | 3859 | 3868 | 3878 | 3887 | 3896 | 3905 | 3914 | 3924 | 3933 | 8 8.0 |
| 4720 | 67 3942 | 3951 | 3960 | 3970 | 3979 | 3988 | 3997 | 4006 | 4016 | 4025 | 9 9.0 |
| 21 | 4034 | 4043 | 4052 | 4062 | 4071 | 4080 | 4089 | 4098 | 4108 | 4117 | |
| 22 | 4126 | 4135 | 4144 | 4154 | 4163 | 4172 | 4181 | 4190 | 4200 | 4209 | |
| 23 | 4218 | 4227 | 4236 | 4246 | 4255 | 4264 | 4273 | 4282 | 4292 | 4301 | |
| 24 | 4310 | 4319 | 4328 | 4337 | 4347 | 4356 | 4365 | 4374 | 4383 | 4393 | |
| 25 | 67 4402 | 4411 | 4420 | 4429 | 4439 | 4448 | 4457 | 4466 | 4475 | 4485 | |
| 26 | 4494 | 4503 | 4512 | 4521 | 4530 | 4540 | 4549 | 4558 | 4567 | 4576 | |
| 27 | 4586 | 4595 | 4604 | 4613 | 4622 | 4632 | 4641 | 4650 | 4659 | 4668 | |
| 28 | 4677 | 4687 | 4696 | 4705 | 4714 | 4723 | 4733 | 4742 | 4751 | 4760 | |
| 29 | 4769 | 4778 | 4788 | 4797 | 4806 | 4815 | 4824 | 4834 | 4843 | 4852 | |
| 4730 | 67 4861 | 4870 | 4880 | 4889 | 4898 | 4907 | 4916 | 4925 | 4935 | 4944 | |
| 31 | 4953 | 4962 | 4971 | 4980 | 4990 | 4999 | 5008 | 5017 | 5026 | 5036 | 9 |
| 32 | 5045 | 5054 | 5063 | 5072 | 5081 | 5091 | 5100 | 5109 | 5118 | 5127 | 1 0.9 |
| 33 | 5137 | 5146 | 5155 | 5164 | 5173 | 5182 | 5191 | 5201 | 5210 | 5219 | 2 1.8 |
| 34 | 5228 | 5237 | 5247 | 5256 | 5265 | 5274 | 5283 | 5292 | 5302 | 5311 | 3 2.7 |
| 35 | 67 5320 | 5329 | 5338 | 5347 | 5357 | 5366 | 5375 | 5384 | 5393 | 5403 | 4 3.6 |
| 36 | 5412 | 5421 | 5430 | 5439 | 5448 | 5458 | 5467 | 5476 | 5485 | 5494 | 5 4.5 |
| 37 | 5503 | 5513 | 5522 | 5531 | 5540 | 5549 | 5558 | 5568 | 5577 | 5586 | 6 5.4 |
| 38 | 5595 | 5604 | 5613 | 5623 | 5632 | 5641 | 5650 | 5659 | 5668 | 5678 | 7 6.3 |
| 39 | 5687 | 5696 | 5705 | 5714 | 5723 | 5733 | 5742 | 5751 | 5760 | 5769 | 8 7.2 |
| 4740 | 67 5778 | 5788 | 5797 | 5806 | 5815 | 5824 | 5833 | 5842 | 5852 | 5861 | 9 8.1 |
| 41 | 5870 | 5879 | 5888 | 5897 | 5907 | 5916 | 5925 | 5934 | 5943 | 5952 | |
| 42 | 5962 | 5971 | 5980 | 5989 | 5998 | 6007 | 6016 | 6026 | 6035 | 6044 | |
| 43 | 6053 | 6062 | 6071 | 6081 | 6090 | 6099 | 6108 | 6117 | 6126 | 6136 | |
| 44 | 6145 | 6154 | 6163 | 6172 | 6181 | 6190 | 6200 | 6209 | 6218 | 6227 | |
| 45 | 67 6236 | 6245 | 6255 | 6264 | 6273 | 6282 | 6291 | 6300 | 6309 | 6319 | |
| 46 | 6328 | 6337 | 6346 | 6355 | 6364 | 6373 | 6383 | 6392 | 6401 | 6410 | |
| 47 | 6419 | 6428 | 6438 | 6447 | 6456 | 6465 | 6474 | 6483 | 6492 | 6502 | |
| 48 | 6511 | 6520 | 6529 | 6538 | 6547 | 6556 | 6566 | 6575 | 6584 | 6593 | |
| 49 | 6602 | 6611 | 6620 | 6630 | 6639 | 6648 | 6657 | 6666 | 6675 | 6684 | |
| 4750 | 67 6694 | 6703 | 6712 | 6721 | 6730 | 6739 | 6748 | 6758 | 6767 | 6776 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 47000" | 13° 3' 20" | | | | | 47000" | 13° 18' 20" | S. 4,685 | 537 | T. 650 | |
| 47100 | 13 5 0 | | | | | 47100 | 13 18 30 | | 537 | 650 | |
| 47200 | 13 6 40 | | | | | 47200 | 13 18 40 | | 537 | 651 | |
| 47300 | 13 8 20 | | | | | 47300 | 13 18 50 | | 537 | 651 | |
| 47400 | 13 10 0 | | | | | 47400 | 13 19 0 | | 537 | 651 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. | |
|--------|-------------|------|------|------|------|--------|------------|------|------|------|-----|---------------------|
| 4750 | 67 6694 | 6703 | 6712 | 6721 | 6730 | 6739 | 6748 | 6758 | 6767 | 6776 | | |
| 51 | 6785 | 6794 | 6803 | 6812 | 6822 | 6831 | 6840 | 6849 | 6858 | 6867 | | |
| 52 | 6876 | 6886 | 6895 | 6904 | 6913 | 6922 | 6931 | 6940 | 6950 | 6959 | | |
| 53 | 6968 | 6977 | 6986 | 6995 | 7004 | 7013 | 7023 | 7032 | 7041 | 7050 | | |
| 54 | 7059 | 7068 | 7077 | 7087 | 7096 | 7105 | 7114 | 7123 | 7132 | 7141 | | |
| 55 | 67 7151 | 7160 | 7169 | 7178 | 7187 | 7196 | 7205 | 7214 | 7224 | 7233 | | |
| 56 | 7242 | 7251 | 7260 | 7269 | 7278 | 7288 | 7297 | 7306 | 7315 | 7324 | | |
| 57 | 7333 | 7342 | 7351 | 7361 | 7370 | 7379 | 7388 | 7397 | 7406 | 7415 | | |
| 58 | 7424 | 7434 | 7443 | 7452 | 7461 | 7470 | 7479 | 7488 | 7497 | 7507 | | |
| 59 | 7516 | 7525 | 7534 | 7543 | 7552 | 7561 | 7570 | 7580 | 7589 | 7598 | | |
| 4760 | 67 7607 | 7616 | 7625 | 7634 | 7643 | 7653 | 7662 | 7671 | 7680 | 7689 | | |
| 61 | 7698 | 7707 | 7716 | 7726 | 7735 | 7744 | 7753 | 7762 | 7771 | 7780 | 10 | |
| 62 | 7789 | 7799 | 7808 | 7817 | 7826 | 7835 | 7844 | 7853 | 7862 | 7871 | 1 | |
| 63 | 7881 | 7890 | 7899 | 7908 | 7917 | 7926 | 7935 | 7944 | 7954 | 7963 | 2 | |
| 64 | 7972 | 7981 | 7990 | 7999 | 8008 | 8017 | 8026 | 8036 | 8045 | 8054 | 3 | |
| 65 | 67 8063 | 8072 | 8081 | 8090 | 8099 | 8108 | 8118 | 8127 | 8136 | 8145 | 4 | |
| 66 | 8154 | 8163 | 8172 | 8181 | 8190 | 8200 | 8209 | 8218 | 8227 | 8236 | 5 | |
| 67 | 8245 | 8254 | 8263 | 8272 | 8282 | 8291 | 8300 | 8309 | 8318 | 8327 | 6 | |
| 68 | 8336 | 8345 | 8354 | 8364 | 8373 | 8382 | 8391 | 8400 | 8409 | 8418 | 7 | |
| 69 | 8427 | 8436 | 8446 | 8455 | 8464 | 8473 | 8482 | 8491 | 8500 | 8509 | 8 | |
| 4770 | 67 8518 | 8527 | 8537 | 8546 | 8555 | 8564 | 8573 | 8582 | 8591 | 8600 | 9 | |
| 71 | 8609 | 8619 | 8628 | 8637 | 8646 | 8655 | 8664 | 8673 | 8682 | 8691 | | |
| 72 | 8700 | 8710 | 8719 | 8728 | 8737 | 8746 | 8755 | 8764 | 8773 | 8782 | | |
| 73 | 8791 | 8801 | 8810 | 8819 | 8828 | 8837 | 8846 | 8855 | 8864 | 8873 | | |
| 74 | 8882 | 8892 | 8901 | 8910 | 8919 | 8928 | 8937 | 8946 | 8955 | 8964 | | |
| 75 | 67 8973 | 8982 | 8992 | 9001 | 9010 | 9019 | 9028 | 9037 | 9046 | 9055 | | |
| 76 | 9064 | 9073 | 9083 | 9092 | 9101 | 9110 | 9119 | 9128 | 9137 | 9146 | | |
| 77 | 9155 | 9164 | 9173 | 9183 | 9192 | 9201 | 9210 | 9219 | 9228 | 9237 | | |
| 78 | 9246 | 9255 | 9264 | 9273 | 9283 | 9292 | 9301 | 9310 | 9319 | 9328 | | |
| 79 | 9337 | 9346 | 9355 | 9364 | 9373 | 9382 | 9392 | 9401 | 9410 | 9419 | | |
| 4780 | 67 9428 | 9437 | 9446 | 9455 | 9464 | 9473 | 9482 | 9491 | 9501 | 9510 | | |
| 81 | 9519 | 9528 | 9537 | 9546 | 9555 | 9564 | 9573 | 9582 | 9591 | 9600 | 9 | |
| 82 | 9610 | 9619 | 9628 | 9637 | 9646 | 9655 | 9664 | 9673 | 9682 | 9691 | 1 | |
| 83 | 9700 | 9709 | 9719 | 9728 | 9737 | 9746 | 9755 | 9764 | 9773 | 9782 | 2 | |
| 84 | 9791 | 9800 | 9809 | 9818 | 9827 | 9837 | 9846 | 9855 | 9864 | 9873 | 3 | |
| 85 | 67 9882 | 9891 | 9900 | 9909 | 9918 | 9927 | 9936 | 9945 | 9955 | 9964 | 4 | |
| 86 | 9973 | 9982 | 9991 | 0000 | 0009 | 0018 | 0027 | 0036 | 0045 | 0054 | 5 | |
| 87 | 68 0063 | 0072 | 0082 | 0091 | 0100 | 0109 | 0118 | 0127 | 0136 | 0145 | 6 | |
| 88 | 0154 | 0163 | 0172 | 0181 | 0190 | 0199 | 0209 | 0218 | 0227 | 0236 | 7 | |
| 89 | 0245 | 0254 | 0263 | 0272 | 0281 | 0290 | 0299 | 0308 | 0317 | 0326 | 8 | |
| 4790 | 68 0336 | 0345 | 0354 | 0363 | 0372 | 0381 | 0390 | 0399 | 0408 | 0417 | 9 | |
| 91 | 0426 | 0435 | 0444 | 0453 | 0462 | 0471 | 0481 | 0490 | 0499 | 0508 | | |
| 92 | 0517 | 0526 | 0535 | 0544 | 0553 | 0562 | 0571 | 0580 | 0589 | 0598 | | |
| 93 | 0607 | 0616 | 0626 | 0635 | 0644 | 0653 | 0662 | 0671 | 0680 | 0689 | | |
| 94 | 0698 | 0707 | 0716 | 0725 | 0734 | 0743 | 0752 | 0761 | 0770 | 0780 | | |
| 95 | 68 0789 | 0798 | 0807 | 0816 | 0825 | 0834 | 0843 | 0852 | 0861 | 0870 | | |
| 96 | 0879 | 0888 | 0897 | 0906 | 0915 | 0924 | 0934 | 0943 | 0952 | 0961 | | |
| 97 | 0970 | 0979 | 0988 | 0997 | 1006 | 1015 | 1024 | 1033 | 1042 | 1051 | | |
| 98 | 1060 | 1069 | 1078 | 1087 | 1096 | 1105 | 1115 | 1124 | 1133 | 1142 | | |
| 99 | 1151 | 1160 | 1169 | 1178 | 1187 | 1196 | 1205 | 1214 | 1223 | 1232 | | |
| 4800 | 68 1241 | 1250 | 1259 | 1268 | 1277 | 1286 | 1296 | 1305 | 1314 | 1323 | | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. | |
| 47500" | 13° 11' 40" | | | | | 47500" | 1° 19' 10" | | | | | S. 4,685 536 T. 652 |
| 47600 | 13 13 20 | | | | | 47600 | 1 19 20 | | | | | 536 652 |
| 47700 | 13 15 0 | | | | | 47700 | 1 19 30 | | | | | 536 653 |
| 47800 | 13 16 40 | | | | | 47800 | 1 19 40 | | | | | 536 653 |
| 47900 | 13 18 20 | | | | | 47900 | 1 19 50 | | | | | 536 653 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|--------------------|------|------|------|-------------------|------|------|----------|------|--------|-------|
| 4800 | 68 1241 | 1250 | 1259 | 1268 | 1277 | 1286 | 1296 | 1305 | 1314 | 1323 | |
| 01 | 1332 | 1341 | 1350 | 1359 | 1368 | 1377 | 1386 | 1395 | 1404 | 1413 | |
| 02 | 1422 | 1431 | 1440 | 1449 | 1458 | 1467 | 1476 | 1485 | 1495 | 1504 | |
| 03 | 1513 | 1522 | 1531 | 1540 | 1549 | 1558 | 1567 | 1576 | 1585 | 1594 | |
| 04 | 1603 | 1612 | 1621 | 1630 | 1639 | 1648 | 1657 | 1666 | 1675 | 1684 | |
| 05 | 68 1693 | 1702 | 1711 | 1721 | 1730 | 1739 | 1748 | 1757 | 1766 | 1775 | |
| 06 | 1784 | 1793 | 1802 | 1811 | 1820 | 1829 | 1838 | 1847 | 1856 | 1865 | |
| 07 | 1874 | 1883 | 1892 | 1901 | 1910 | 1919 | 1928 | 1937 | 1946 | 1955 | |
| 08 | 1964 | 1973 | 1983 | 1992 | 2001 | 2010 | 2019 | 2028 | 2037 | 2046 | |
| 09 | 2055 | 2064 | 2073 | 2082 | 2091 | 2100 | 2109 | 2118 | 2127 | 2136 | |
| 4810 | 68 2145 | 2154 | 2163 | 2172 | 2181 | 2190 | 2199 | 2208 | 2217 | 2226 | |
| 11 | 2235 | 2244 | 2253 | 2262 | 2271 | 2280 | 2290 | 2299 | 2308 | 2317 | 10 |
| 12 | 2326 | 2335 | 2344 | 2353 | 2362 | 2371 | 2380 | 2389 | 2398 | 2407 | 1 1.0 |
| 13 | 2416 | 2425 | 2434 | 2443 | 2452 | 2461 | 2470 | 2479 | 2488 | 2497 | 2 2.0 |
| 14 | 2506 | 2515 | 2524 | 2533 | 2542 | 2551 | 2560 | 2569 | 2578 | 2587 | 3 3.0 |
| 15 | 68 2596 | 2605 | 2614 | 2623 | 2632 | 2641 | 2650 | 2659 | 2668 | 2677 | 4 4.0 |
| 16 | 2686 | 2695 | 2705 | 2714 | 2723 | 2732 | 2741 | 2750 | 2759 | 2768 | 5 5.0 |
| 17 | 2777 | 2786 | 2795 | 2804 | 2813 | 2822 | 2831 | 2840 | 2849 | 2858 | 6 6.0 |
| 18 | 2867 | 2876 | 2885 | 2894 | 2903 | 2912 | 2921 | 2930 | 2939 | 2948 | 7 7.0 |
| 19 | 2957 | 2966 | 2975 | 2984 | 2993 | 3002 | 3011 | 3020 | 3029 | 3038 | 8 8.0 |
| 4820 | 68 3047 | 3056 | 3065 | 3074 | 3083 | 3092 | 3101 | 3110 | 3119 | 3128 | 9 9.0 |
| 21 | 3137 | 3146 | 3155 | 3164 | 3173 | 3182 | 3191 | 3200 | 3209 | 3218 | |
| 22 | 3227 | 3236 | 3245 | 3254 | 3263 | 3272 | 3281 | 3290 | 3299 | 3308 | |
| 23 | 3317 | 3326 | 3335 | 3344 | 3353 | 3362 | 3371 | 3380 | 3389 | 3398 | |
| 24 | 3407 | 3416 | 3425 | 3434 | 3443 | 3452 | 3461 | 3470 | 3479 | 3488 | |
| 25 | 68 3497 | 3506 | 3515 | 3524 | 3533 | 3542 | 3551 | 3560 | 3569 | 3578 | |
| 26 | 3587 | 3596 | 3605 | 3614 | 3623 | 3632 | 3641 | 3650 | 3659 | 3668 | |
| 27 | 3677 | 3686 | 3695 | 3704 | 3713 | 3722 | 3731 | 3740 | 3749 | 3758 | |
| 28 | 3767 | 3776 | 3785 | 3794 | 3803 | 3812 | 3821 | 3830 | 3839 | 3848 | |
| 29 | 3857 | 3866 | 3875 | 3884 | 3893 | 3902 | 3911 | 3920 | 3929 | 3938 | |
| 4830 | 68 3947 | 3956 | 3965 | 3974 | 3983 | 3992 | 4001 | 4010 | 4019 | 4028 | |
| 31 | 4037 | 4046 | 4055 | 4064 | 4073 | 4082 | 4091 | 4100 | 4109 | 4118 | 9 |
| 32 | 4127 | 4136 | 4145 | 4154 | 4163 | 4172 | 4181 | 4190 | 4199 | 4208 | 1 0.9 |
| 33 | 4217 | 4226 | 4235 | 4244 | 4253 | 4262 | 4271 | 4280 | 4289 | 4298 | 2 1.8 |
| 34 | 4307 | 4316 | 4325 | 4334 | 4343 | 4352 | 4361 | 4370 | 4379 | 4387 | 3 2.7 |
| 35 | 68 4396 | 4405 | 4414 | 4423 | 4432 | 4441 | 4450 | 4459 | 4468 | 4477 | 4 3.6 |
| 36 | 4486 | 4495 | 4504 | 4513 | 4522 | 4531 | 4540 | 4549 | 4558 | 4567 | 5 4.5 |
| 37 | 4576 | 4585 | 4594 | 4603 | 4612 | 4621 | 4630 | 4639 | 4648 | 4657 | 6 5.4 |
| 38 | 4666 | 4675 | 4684 | 4693 | 4702 | 4711 | 4720 | 4729 | 4738 | 4747 | 7 6.3 |
| 39 | 4756 | 4765 | 4774 | 4783 | 4792 | 4800 | 4809 | 4818 | 4827 | 4836 | 8 7.2 |
| 4840 | 68 4845 | 4854 | 4863 | 4872 | 4881 | 4890 | 4899 | 4908 | 4917 | 4926 | 9 8.1 |
| 41 | 4935 | 4944 | 4953 | 4962 | 4971 | 4980 | 4989 | 4998 | 5007 | 5016 | |
| 42 | 5025 | 5034 | 5043 | 5052 | 5061 | 5070 | 5079 | 5088 | 5097 | 5106 | |
| 43 | 5114 | 5123 | 5132 | 5141 | 5150 | 5159 | 5168 | 5177 | 5186 | 5195 | |
| 44 | 5204 | 5213 | 5222 | 5231 | 5240 | 5249 | 5258 | 5267 | 5276 | 5285 | |
| 45 | 68 5294 | 5303 | 5312 | 5321 | 5330 | 5339 | 5348 | 5357 | 5365 | 5374 | |
| 46 | 5383 | 5392 | 5401 | 5410 | 5419 | 5428 | 5437 | 5446 | 5455 | 5464 | |
| 47 | 5473 | 5482 | 5491 | 5500 | 5509 | 5518 | 5527 | 5536 | 5545 | 5554 | |
| 48 | 5563 | 5572 | 5581 | 5589 | 5598 | 5607 | 5616 | 5625 | 5634 | 5643 | |
| 49 | 5652 | 5661 | 5670 | 5679 | 5688 | 5697 | 5706 | 5715 | 5724 | 5733 | |
| 4850 | 68 5742 | 5751 | 5760 | 5769 | 5778 | 5787 | 5795 | 5804 | 5813 | 5822 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 4800" = 13° 20' 0" | | | | 4800" = 1° 20' 0" | | | S. 4.685 | 536 | T. 653 | |
| | 48100 = 13 21 40 | | | | 4810 = 1 20 10 | | | | 536 | 654 | |
| | 48200 = 13 23 20 | | | | 4820 = 1 20 20 | | | | 535 | 654 | |
| | 48300 = 13 25 0 | | | | 4830 = 1 20 30 | | | | 535 | 654 | |
| | 48400 = 13 26 40 | | | | 4840 = 1 20 40 | | | | 535 | 655 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|------|-------|--------------|------|------|----------|------|--------|
| 4850 | 68 5742 | 5751 | 5760 | 5769 | 5778 | 5787 | 5795 | 5804 | 5813 | 5822 | |
| 51 | 5831 | 5840 | 5849 | 5858 | 5867 | 5876 | 5885 | 5894 | 5903 | 5912 | |
| 52 | 5921 | 5930 | 5939 | 5948 | 5957 | 5966 | 5974 | 5983 | 5992 | 6001 | |
| 53 | 6010 | 6019 | 6028 | 6037 | 6046 | 6055 | 6064 | 6073 | 6082 | 6091 | |
| 54 | 6100 | 6109 | 6118 | 6127 | 6136 | 6145 | 6153 | 6162 | 6171 | 6180 | |
| 55 | 6189 | 6198 | 6207 | 6216 | 6225 | 6234 | 6243 | 6252 | 6261 | 6270 | |
| 56 | 6279 | 6288 | 6297 | 6306 | 6314 | 6323 | 6332 | 6341 | 6350 | 6359 | |
| 57 | 6368 | 6377 | 6386 | 6395 | 6404 | 6413 | 6422 | 6431 | 6440 | 6449 | |
| 58 | 6458 | 6466 | 6475 | 6484 | 6493 | 6502 | 6511 | 6520 | 6529 | 6538 | |
| 59 | 6547 | 6556 | 6565 | 6574 | 6583 | 6592 | 6601 | 6609 | 6618 | 6627 | |
| 4860 | 6636 | 6645 | 6654 | 6663 | 6672 | 6681 | 6690 | 6699 | 6708 | 6717 | |
| 61 | 6726 | 6735 | 6743 | 6752 | 6761 | 6770 | 6779 | 6788 | 6797 | 6806 | 9 |
| 62 | 6815 | 6824 | 6833 | 6842 | 6851 | 6860 | 6869 | 6877 | 6886 | 6895 | 1 0.9 |
| 63 | 6904 | 6913 | 6922 | 6931 | 6940 | 6949 | 6958 | 6967 | 6976 | 6985 | 2 1.8 |
| 64 | 6994 | 7002 | 7011 | 7020 | 7029 | 7038 | 7047 | 7056 | 7065 | 7074 | 3 2.7 |
| 65 | 68 7083 | 7092 | 7101 | 7110 | 7119 | 7127 | 7136 | 7145 | 7154 | 7163 | 4 3.6 |
| 66 | 7172 | 7181 | 7190 | 7199 | 7208 | 7217 | 7226 | 7235 | 7243 | 7252 | 5 4.5 |
| 67 | 7261 | 7270 | 7279 | 7288 | 7297 | 7306 | 7315 | 7324 | 7333 | 7342 | 6 5.4 |
| 68 | 7351 | 7359 | 7368 | 7377 | 7386 | 7395 | 7404 | 7413 | 7422 | 7431 | 7 6.3 |
| 69 | 7440 | 7449 | 7458 | 7467 | 7475 | 7484 | 7493 | 7502 | 7511 | 7520 | 8 7.2 |
| 4870 | 68 7529 | 7538 | 7547 | 7556 | 7565 | 7574 | 7582 | 7591 | 7600 | 7609 | 9 8.1 |
| 71 | 7618 | 7627 | 7636 | 7645 | 7654 | 7663 | 7672 | 7681 | 7689 | 7698 | |
| 72 | 7707 | 7716 | 7725 | 7734 | 7743 | 7752 | 7761 | 7770 | 7779 | 7787 | |
| 73 | 7796 | 7805 | 7814 | 7823 | 7832 | 7841 | 7850 | 7859 | 7868 | 7877 | |
| 74 | 7886 | 7894 | 7903 | 7912 | 7921 | 7930 | 7939 | 7948 | 7957 | 7966 | |
| 75 | 68 7975 | 7984 | 7992 | 8001 | 8010 | 8019 | 8028 | 8037 | 8046 | 8055 | |
| 76 | 8064 | 8073 | 8082 | 8090 | 8099 | 8108 | 8117 | 8126 | 8135 | 8144 | |
| 77 | 8153 | 8162 | 8171 | 8179 | 8188 | 8197 | 8206 | 8215 | 8224 | 8233 | |
| 78 | 8242 | 8251 | 8260 | 8269 | 8277 | 8286 | 8295 | 8304 | 8313 | 8322 | |
| 79 | 8331 | 8340 | 8349 | 8358 | 8366 | 8375 | 8384 | 8393 | 8402 | 8411 | |
| 4880 | 68 8420 | 8429 | 8438 | 8447 | 8455 | 8464 | 8473 | 8482 | 8491 | 8500 | 8 |
| 81 | 8509 | 8518 | 8527 | 8535 | 8544 | 8553 | 8562 | 8571 | 8580 | 8589 | 1 0.8 |
| 82 | 8598 | 8607 | 8616 | 8624 | 8633 | 8642 | 8651 | 8660 | 8669 | 8678 | 2 1.6 |
| 83 | 8687 | 8696 | 8705 | 8713 | 8722 | 8731 | 8740 | 8749 | 8758 | 8767 | 3 2.4 |
| 84 | 8776 | 8785 | 8793 | 8802 | 8811 | 8820 | 8829 | 8838 | 8847 | 8856 | 4 3.2 |
| 85 | 68 8865 | 8873 | 8882 | 8891 | 8900 | 8909 | 8918 | 8927 | 8936 | 8945 | 5 4.0 |
| 86 | 8953 | 8962 | 8971 | 8980 | 8989 | 8998 | 9007 | 9016 | 9025 | 9033 | 6 4.8 |
| 87 | 9042 | 9051 | 9060 | 9069 | 9078 | 9087 | 9096 | 9105 | 9113 | 9122 | 7 5.6 |
| 88 | 9131 | 9140 | 9149 | 9158 | 9167 | 9176 | 9185 | 9193 | 9202 | 9211 | 8 6.4 |
| 89 | 9220 | 9229 | 9238 | 9247 | 9256 | 9264 | 9273 | 9282 | 9291 | 9300 | 9 7.2 |
| 4890 | 68 9309 | 9318 | 9327 | 9336 | 9344 | 9353 | 9362 | 9371 | 9380 | 9389 | |
| 91 | 9398 | 9407 | 9415 | 9424 | 9433 | 9442 | 9451 | 9460 | 9469 | 9478 | |
| 92 | 9486 | 9495 | 9504 | 9513 | 9522 | 9531 | 9540 | 9549 | 9557 | 9566 | |
| 93 | 9575 | 9584 | 9593 | 9602 | 9611 | 9620 | 9628 | 9637 | 9646 | 9655 | |
| 94 | 9664 | 9673 | 9682 | 9691 | 9699 | 9708 | 9717 | 9726 | 9735 | 9744 | |
| 95 | 68 9753 | 9762 | 9770 | 9779 | 9788 | 9797 | 9806 | 9815 | 9824 | 9833 | |
| 96 | 9841 | 9850 | 9859 | 9868 | 9877 | 9886 | 9895 | 9903 | 9912 | 9921 | |
| 97 | 9930 | 9939 | 9948 | 9957 | 9966 | 9974 | 9983 | 9992 | 1001 | 1010 | |
| 98 | 69 0019 | 0028 | 0037 | 0045 | 0054 | 0063 | 0072 | 0081 | 0090 | 0099 | |
| 99 | 0107 | 0116 | 0125 | 0134 | 0143 | 0152 | 0161 | 0169 | 0178 | 0187 | |
| 4900 | 69 0196 | 0205 | 0214 | 0223 | 0232 | 0240 | 0249 | 0258 | 0267 | 0276 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 48500" | = 13° 28' 20" | | | | 4850" | = 1° 20' 50" | | | S. 4,685 | 535 | T. 655 |
| 48600" | = 13 30 0 | | | | 4860" | = 1 21 0 | | | | 535 | 655 |
| 48700" | = 13 31 40 | | | | 4870" | = 1 21 10 | | | | 535 | 656 |
| 48800" | = 13 33 20 | | | | 4880" | = 1 21 20 | | | | 534 | 656 |
| 48900" | = 13 35 0 | | | | 4890" | = 1 21 30 | | | | 534 | 656 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|----------|------|--------|-------|
| 4900 | 69 0196 | 0205 | 0214 | 0223 | 0232 | 0240 | 0249 | 0258 | 0267 | 0276 | |
| 01 | 0285 | 0294 | 0302 | 0311 | 0320 | 0329 | 0338 | 0347 | 0356 | 0364 | |
| 02 | 0373 | 0382 | 0391 | 0400 | 0409 | 0418 | 0426 | 0435 | 0444 | 0453 | |
| 03 | 0462 | 0471 | 0480 | 0488 | 0497 | 0506 | 0515 | 0524 | 0533 | 0542 | |
| 04 | 0550 | 0559 | 0568 | 0577 | 0586 | 0595 | 0604 | 0612 | 0621 | 0630 | |
| 05 | 69 0639 | 0648 | 0657 | 0666 | 0674 | 0683 | 0692 | 0701 | 0710 | 0719 | |
| 06 | 0728 | 0736 | 0745 | 0754 | 0763 | 0772 | 0781 | 0790 | 0798 | 0807 | |
| 07 | 0816 | 0825 | 0834 | 0843 | 0851 | 0860 | 0869 | 0878 | 0887 | 0896 | |
| 08 | 0905 | 0913 | 0922 | 0931 | 0940 | 0949 | 0958 | 0966 | 0975 | 0984 | |
| 09 | 0993 | 1002 | 1011 | 1020 | 1028 | 1037 | 1046 | 1055 | 1064 | 1073 | |
| 4910 | 69 1081 | 1090 | 1099 | 1108 | 1117 | 1126 | 1135 | 1143 | 1152 | 1161 | |
| 11 | 1170 | 1179 | 1188 | 1196 | 1205 | 1214 | 1223 | 1232 | 1241 | 1250 | |
| 12 | 1258 | 1267 | 1276 | 1285 | 1294 | 1303 | 1311 | 1320 | 1329 | 1338 | 9 |
| 13 | 1347 | 1356 | 1364 | 1373 | 1382 | 1391 | 1400 | 1409 | 1417 | 1426 | 1 0.9 |
| 14 | 1435 | 1444 | 1453 | 1462 | 1471 | 1479 | 1488 | 1497 | 1506 | 1515 | 2 1.8 |
| 15 | 69 1524 | 1532 | 1541 | 1550 | 1559 | 1568 | 1577 | 1585 | 1594 | 1603 | 3 2.7 |
| 16 | 1612 | 1621 | 1630 | 1638 | 1647 | 1656 | 1665 | 1674 | 1683 | 1691 | 4 3.6 |
| 17 | 1700 | 1709 | 1718 | 1727 | 1736 | 1744 | 1753 | 1762 | 1771 | 1780 | 5 4.5 |
| 18 | 1789 | 1797 | 1806 | 1815 | 1824 | 1833 | 1842 | 1850 | 1859 | 1868 | 6 5.4 |
| 19 | 1877 | 1886 | 1894 | 1903 | 1912 | 1921 | 1930 | 1939 | 1947 | 1956 | 7 6.3 |
| 4920 | 69 1965 | 1974 | 1983 | 1992 | 2000 | 2009 | 2018 | 2027 | 2036 | 2045 | 8 7.2 |
| 21 | 2053 | 2062 | 2071 | 2080 | 2089 | 2097 | 2106 | 2115 | 2124 | 2133 | |
| 22 | 2142 | 2150 | 2159 | 2168 | 2177 | 2186 | 2195 | 2203 | 2212 | 2221 | |
| 23 | 2230 | 2239 | 2247 | 2256 | 2265 | 2274 | 2283 | 2292 | 2300 | 2309 | |
| 24 | 2318 | 2327 | 2336 | 2345 | 2353 | 2362 | 2371 | 2380 | 2389 | 2397 | |
| 25 | 69 2406 | 2415 | 2424 | 2433 | 2442 | 2450 | 2459 | 2468 | 2477 | 2486 | |
| 26 | 2494 | 2503 | 2512 | 2521 | 2530 | 2538 | 2547 | 2556 | 2565 | 2574 | |
| 27 | 2583 | 2591 | 2600 | 2609 | 2618 | 2627 | 2635 | 2644 | 2653 | 2662 | |
| 28 | 2671 | 2680 | 2688 | 2697 | 2706 | 2715 | 2724 | 2732 | 2741 | 2750 | |
| 29 | 2759 | 2768 | 2776 | 2785 | 2794 | 2803 | 2812 | 2820 | 2829 | 2838 | |
| 4930 | 69 2847 | 2856 | 2865 | 2873 | 2882 | 2891 | 2900 | 2909 | 2917 | 2926 | |
| 31 | 2935 | 2944 | 2953 | 2961 | 2970 | 2979 | 2988 | 2997 | 3005 | 3014 | 8 |
| 32 | 3023 | 3032 | 3041 | 3049 | 3058 | 3067 | 3076 | 3085 | 3094 | 3102 | 1 0.8 |
| 33 | 3111 | 3120 | 3129 | 3138 | 3146 | 3155 | 3164 | 3173 | 3182 | 3190 | 2 1.6 |
| 34 | 3199 | 3208 | 3217 | 3226 | 3234 | 3243 | 3252 | 3261 | 3270 | 3278 | 3 2.4 |
| 35 | 69 3287 | 3296 | 3305 | 3314 | 3322 | 3331 | 3340 | 3349 | 3358 | 3366 | 4 3.2 |
| 36 | 3375 | 3384 | 3393 | 3402 | 3410 | 3419 | 3428 | 3437 | 3446 | 3454 | 5 4.0 |
| 37 | 3463 | 3472 | 3481 | 3490 | 3498 | 3507 | 3516 | 3525 | 3533 | 3542 | 6 4.8 |
| 38 | 3551 | 3560 | 3569 | 3577 | 3586 | 3595 | 3604 | 3613 | 3621 | 3630 | 7 5.6 |
| 39 | 3639 | 3648 | 3657 | 3665 | 3674 | 3683 | 3692 | 3701 | 3709 | 3718 | 8 6.4 |
| 4940 | 69 3727 | 3736 | 3745 | 3753 | 3762 | 3771 | 3780 | 3788 | 3797 | 3806 | 9 7.2 |
| 41 | 3815 | 3824 | 3832 | 3841 | 3850 | 3859 | 3868 | 3876 | 3885 | 3894 | |
| 42 | 3903 | 3912 | 3920 | 3929 | 3938 | 3947 | 3955 | 3964 | 3973 | 3982 | |
| 43 | 3991 | 3999 | 4008 | 4017 | 4026 | 4035 | 4043 | 4052 | 4061 | 4070 | |
| 44 | 4078 | 4087 | 4096 | 4105 | 4114 | 4122 | 4131 | 4140 | 4149 | 4158 | |
| 45 | 69 4166 | 4175 | 4184 | 4193 | 4201 | 4210 | 4219 | 4228 | 4237 | 4245 | |
| 46 | 4254 | 4263 | 4272 | 4280 | 4289 | 4298 | 4307 | 4316 | 4324 | 4333 | |
| 47 | 4342 | 4351 | 4359 | 4368 | 4377 | 4386 | 4395 | 4403 | 4412 | 4421 | |
| 48 | 4430 | 4438 | 4447 | 4456 | 4465 | 4474 | 4482 | 4491 | 4500 | 4509 | |
| 49 | 4517 | 4526 | 4535 | 4544 | 4553 | 4561 | 4570 | 4579 | 4588 | 4596 | |
| 4950 | 69 4605 | 4614 | 4623 | 4632 | 4640 | 4649 | 4658 | 4667 | 4675 | 4684 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 49000 | = 13° 36' 40" | | | | 49000 | = 1° 21' 40" | | S. 4.685 | 534 | T. 657 | |
| 49100 | = 13 38 20 | | | | 49100 | = 1 21 50 | | | 534 | 657 | |
| 49200 | = 13 40 0 | | | | 49200 | = 1 22 0 | | | 534 | 657 | |
| 49300 | = 13 41 40 | | | | 49300 | = 1 22 10 | | | 534 | 658 | |
| 49400 | = 13 43 20 | | | | 49400 | = 1 22 20 | | | 533 | 658 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|-------|------|------|--------------|------|------|----------|------------|
| 4950 | 69 4605 | 4614 | 4623 | 4632 | 4640 | 4649 | 4658 | 4667 | 4675 | 4684 | |
| 51 | 4693 | 4702 | 4710 | 4719 | 4728 | 4737 | 4746 | 4754 | 4763 | 4772 | |
| 52 | 4781 | 4789 | 4798 | 4807 | 4816 | 4824 | 4833 | 4842 | 4851 | 4860 | |
| 53 | 4868 | 4877 | 4886 | 4895 | 4903 | 4912 | 4921 | 4930 | 4938 | 4947 | |
| 54 | 4956 | 4965 | 4974 | 4982 | 4991 | 5000 | 5009 | 5017 | 5026 | 5035 | |
| 55 | 69 5044 | 5052 | 5061 | 5070 | 5079 | 5087 | 5096 | 5105 | 5114 | 5123 | |
| 56 | 5131 | 5140 | 5149 | 5158 | 5166 | 5175 | 5184 | 5193 | 5201 | 5210 | |
| 57 | 5219 | 5228 | 5236 | 5245 | 5254 | 5263 | 5271 | 5280 | 5289 | 5298 | |
| 58 | 5307 | 5315 | 5324 | 5333 | 5342 | 5350 | 5359 | 5368 | 5377 | 5385 | |
| 59 | 5394 | 5403 | 5412 | 5420 | 5429 | 5438 | 5447 | 5455 | 5464 | 5473 | |
| 4960 | 69 5482 | 5490 | 5499 | 5508 | 5517 | 5525 | 5534 | 5543 | 5552 | 5560 | |
| 61 | 5569 | 5578 | 5587 | 5595 | 5604 | 5613 | 5622 | 5631 | 5639 | 5648 | 9 |
| 62 | 5657 | 5666 | 5674 | 5683 | 5692 | 5701 | 5709 | 5718 | 5727 | 5736 | 1 0.9 |
| 63 | 5744 | 5753 | 5762 | 5771 | 5779 | 5788 | 5797 | 5806 | 5814 | 5823 | 2 1.8 |
| 64 | 5832 | 5841 | 5849 | 5858 | 5867 | 5876 | 5884 | 5893 | 5902 | 5911 | 3 2.7 |
| 65 | 69 5919 | 5928 | 5937 | 5945 | 5954 | 5963 | 5972 | 5980 | 5989 | 5998 | 4 3.6 |
| 66 | 6007 | 6015 | 6024 | 6033 | 6042 | 6050 | 6059 | 6068 | 6077 | 6085 | 5 4.5 |
| 67 | 6094 | 6103 | 6112 | 6120 | 6129 | 6138 | 6147 | 6155 | 6164 | 6173 | 6 5.4 |
| 68 | 6182 | 6190 | 6199 | 6208 | 6217 | 6225 | 6234 | 6243 | 6252 | 6260 | 7 6.3 |
| 69 | 6269 | 6278 | 6286 | 6295 | 6304 | 6313 | 6321 | 6330 | 6339 | 6348 | 8 7.2 |
| 4970 | 69 6356 | 6365 | 6374 | 6383 | 6391 | 6400 | 6409 | 6418 | 6426 | 6435 | 9 8.1 |
| 71 | 6444 | 6452 | 6461 | 6470 | 6479 | 6487 | 6496 | 6505 | 6514 | 6522 | |
| 72 | 6531 | 6540 | 6549 | 6557 | 6566 | 6575 | 6584 | 6592 | 6601 | 6610 | |
| 73 | 6618 | 6627 | 6636 | 6645 | 6653 | 6662 | 6671 | 6680 | 6688 | 6697 | |
| 74 | 6706 | 6715 | 6723 | 6732 | 6741 | 6749 | 6758 | 6767 | 6776 | 6784 | |
| 75 | 69 6793 | 6802 | 6811 | 6819 | 6828 | 6837 | 6845 | 6854 | 6863 | 6872 | |
| 76 | 6880 | 6889 | 6898 | 6907 | 6915 | 6924 | 6933 | 6941 | 6950 | 6959 | |
| 77 | 6968 | 6976 | 6985 | 6994 | 7003 | 7011 | 7020 | 7029 | 7037 | 7046 | |
| 78 | 7055 | 7064 | 7072 | 7081 | 7090 | 7099 | 7107 | 7116 | 7125 | 7133 | |
| 79 | 7142 | 7151 | 7160 | 7168 | 7177 | 7186 | 7194 | 7203 | 7212 | 7221 | |
| 4980 | 69 7229 | 7238 | 7247 | 7256 | 7264 | 7273 | 7282 | 7290 | 7299 | 7308 | 8 |
| 81 | 7317 | 7325 | 7334 | 7343 | 7351 | 7360 | 7369 | 7378 | 7387 | 7395 | 1 0.8 |
| 82 | 7404 | 7412 | 7421 | 7430 | 7439 | 7447 | 7456 | 7465 | 7474 | 7483 | 2 1.6 |
| 83 | 7491 | 7500 | 7508 | 7517 | 7526 | 7534 | 7543 | 7552 | 7561 | 7569 | 3 2.4 |
| 84 | 7578 | 7587 | 7595 | 7604 | 7613 | 7622 | 7630 | 7639 | 7648 | 7656 | 4 3.2 |
| 85 | 69 7665 | 7674 | 7683 | 7691 | 7700 | 7709 | 7717 | 7726 | 7735 | 7744 | 5 4.0 |
| 86 | 7752 | 7761 | 7770 | 7778 | 7787 | 7796 | 7805 | 7813 | 7822 | 7831 | 6 4.8 |
| 87 | 7839 | 7848 | 7857 | 7865 | 7874 | 7883 | 7892 | 7900 | 7909 | 7918 | 7 5.6 |
| 88 | 7926 | 7935 | 7944 | 7953 | 7961 | 7970 | 7979 | 7987 | 7996 | 8005 | 8 6.4 |
| 89 | 8014 | 8022 | 8031 | 8040 | 8048 | 8057 | 8066 | 8074 | 8083 | 8092 | 9 7.2 |
| 4990 | 69 8101 | 8109 | 8118 | 8127 | 8135 | 8144 | 8153 | 8161 | 8170 | 8179 | |
| 91 | 8188 | 8196 | 8205 | 8214 | 8222 | 8231 | 8240 | 8248 | 8257 | 8266 | |
| 92 | 8275 | 8283 | 8292 | 8301 | 8309 | 8318 | 8327 | 8335 | 8344 | 8353 | |
| 93 | 8362 | 8370 | 8379 | 8388 | 8396 | 8405 | 8414 | 8422 | 8431 | 8440 | |
| 94 | 8449 | 8457 | 8466 | 8475 | 8483 | 8492 | 8501 | 8509 | 8518 | 8527 | |
| 95 | 69 8535 | 8544 | 8553 | 8562 | 8570 | 8579 | 8588 | 8596 | 8605 | 8614 | |
| 96 | 8622 | 8631 | 8640 | 8649 | 8657 | 8666 | 8675 | 8683 | 8692 | 8701 | |
| 97 | 8709 | 8718 | 8727 | 8735 | 8744 | 8753 | 8761 | 8770 | 8779 | 8788 | |
| 98 | 8796 | 8805 | 8814 | 8822 | 8831 | 8840 | 8848 | 8857 | 8866 | 8874 | |
| 99 | 8883 | 8892 | 8901 | 8909 | 8918 | 8927 | 8935 | 8944 | 8953 | 8961 | |
| 5000 | 69 8970 | 8979 | 8987 | 8996 | 9005 | 9013 | 9022 | 9031 | 9039 | 9048 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 49500 | = 13° 45' 0" | | | 49500 | | | = 1° 22' 30" | | | S. 4.685 | 533 T. 658 |
| 49600 | = 13 46 40 | | | 49600 | | | = 1 22 40 | | | 533 | 659 |
| 49700 | = 13 48 20 | | | 49700 | | | = 1 22 50 | | | 533 | 659 |
| 49800 | = 13 50 0 | | | 49800 | | | = 1 23 0 | | | 533 | 659 |
| 49900 | = 13 51 40 | | | 49900 | | | = 1 23 10 | | | 533 | 660 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|----------------------|------|------|----------|------|--------|-------|
| 5000 | 69 8970 | 8979 | 8987 | 8996 | 9005 | 9013 | 9022 | 9031 | 9039 | 9048 | |
| 01 | 9057 | 9066 | 9074 | 9083 | 9092 | 9100 | 9109 | 9118 | 9126 | 9135 | |
| 02 | 9144 | 9152 | 9161 | 9170 | 9178 | 9187 | 9196 | 9204 | 9213 | 9222 | |
| 03 | 9231 | 9239 | 9248 | 9257 | 9265 | 9274 | 9283 | 9291 | 9300 | 9309 | |
| 04 | 9317 | 9326 | 9335 | 9343 | 9352 | 9361 | 9369 | 9378 | 9387 | 9395 | |
| 05 | 69 9404 | 9413 | 9421 | 9430 | 9439 | 9447 | 9456 | 9465 | 9473 | 9482 | |
| 06 | 9491 | 9500 | 9508 | 9517 | 9526 | 9534 | 9543 | 9552 | 9560 | 9569 | |
| 07 | 9578 | 9586 | 9595 | 9604 | 9612 | 9621 | 9630 | 9638 | 9647 | 9656 | |
| 08 | 9664 | 9673 | 9682 | 9690 | 9699 | 9708 | 9716 | 9725 | 9734 | 9742 | |
| 09 | 9751 | 9760 | 9768 | 9777 | 9786 | 9794 | 9803 | 9812 | 9820 | 9829 | |
| 5010 | 69 9838 | 9846 | 9855 | 9864 | 9872 | 9881 | 9890 | 9898 | 9907 | 9916 | |
| 11 | 9924 | 9933 | 9942 | 9950 | 9959 | 9968 | 9976 | 9985 | 9994 | 10002 | 9 |
| 12 | 70 0011 | 0020 | 0028 | 0037 | 0046 | 0054 | 0063 | 0072 | 0080 | 0089 | 1 0.9 |
| 13 | 0098 | 0106 | 0115 | 0124 | 0132 | 0141 | 0150 | 0158 | 0167 | 0176 | 2 1.8 |
| 14 | 0184 | 0193 | 0202 | 0210 | 0219 | 0228 | 0236 | 0245 | 0254 | 0262 | 3 2.7 |
| 15 | 70 0271 | 0280 | 0288 | 0297 | 0306 | 0314 | 0323 | 0332 | 0340 | 0349 | 4 3.6 |
| 16 | 0358 | 0366 | 0375 | 0384 | 0392 | 0401 | 0409 | 0418 | 0427 | 0435 | 5 4.5 |
| 17 | 0444 | 0453 | 0461 | 0470 | 0479 | 0487 | 0496 | 0505 | 0513 | 0522 | 6 5.4 |
| 18 | 0531 | 0539 | 0548 | 0557 | 0565 | 0574 | 0583 | 0591 | 0600 | 0609 | 7 6.3 |
| 19 | 0617 | 0626 | 0635 | 0643 | 0652 | 0660 | 0669 | 0678 | 0686 | 0695 | 8 7.2 |
| 5020 | 70 0714 | 0722 | 0731 | 0739 | 0748 | 0756 | 0764 | 0773 | 0782 | 0791 | 9 8.1 |
| 21 | 0800 | 0809 | 0817 | 0826 | 0834 | 0843 | 0851 | 0860 | 0868 | 0877 | |
| 22 | 0886 | 0895 | 0903 | 0912 | 0920 | 0929 | 0937 | 0946 | 0954 | 0963 | |
| 23 | 0972 | 0980 | 0989 | 0998 | 1006 | 1015 | 1024 | 1032 | 1041 | 1049 | |
| 24 | 1050 | 1058 | 1067 | 1076 | 1084 | 1093 | 1101 | 1110 | 1119 | 1127 | |
| 25 | 70 1136 | 1145 | 1153 | 1162 | 1171 | 1179 | 1188 | 1197 | 1205 | 1214 | |
| 26 | 1222 | 1231 | 1240 | 1248 | 1257 | 1266 | 1274 | 1283 | 1292 | 1300 | |
| 27 | 1309 | 1318 | 1326 | 1335 | 1343 | 1352 | 1361 | 1369 | 1378 | 1387 | |
| 28 | 1395 | 1404 | 1413 | 1421 | 1430 | 1438 | 1447 | 1456 | 1464 | 1473 | |
| 29 | 1482 | 1490 | 1499 | 1508 | 1516 | 1525 | 1533 | 1542 | 1551 | 1559 | |
| 5030 | 70 1568 | 1577 | 1585 | 1594 | 1603 | 1611 | 1620 | 1628 | 1637 | 1646 | |
| 31 | 1654 | 1663 | 1672 | 1680 | 1689 | 1697 | 1706 | 1715 | 1723 | 1732 | 8 |
| 32 | 1741 | 1749 | 1758 | 1767 | 1775 | 1784 | 1792 | 1801 | 1810 | 1818 | 1 0.8 |
| 33 | 1827 | 1836 | 1844 | 1853 | 1861 | 1870 | 1879 | 1887 | 1896 | 1905 | 2 1.6 |
| 34 | 1913 | 1922 | 1930 | 1939 | 1948 | 1956 | 1965 | 1974 | 1982 | 1991 | 3 2.4 |
| 35 | 70 1999 | 2008 | 2017 | 2025 | 2034 | 2043 | 2051 | 2060 | 2068 | 2077 | 4 3.2 |
| 36 | 2086 | 2094 | 2103 | 2112 | 2120 | 2129 | 2137 | 2146 | 2155 | 2163 | 5 4.0 |
| 37 | 2172 | 2181 | 2189 | 2198 | 2206 | 2215 | 2224 | 2232 | 2241 | 2250 | 6 4.8 |
| 38 | 2258 | 2267 | 2275 | 2284 | 2293 | 2301 | 2310 | 2319 | 2327 | 2336 | 7 5.6 |
| 39 | 2344 | 2353 | 2362 | 2370 | 2379 | 2387 | 2396 | 2405 | 2413 | 2422 | 8 6.4 |
| 5040 | 70 2431 | 2439 | 2448 | 2456 | 2465 | 2474 | 2482 | 2491 | 2499 | 2508 | 9 7.2 |
| 41 | 2517 | 2525 | 2534 | 2543 | 2551 | 2560 | 2568 | 2577 | 2586 | 2594 | |
| 42 | 2603 | 2611 | 2620 | 2629 | 2637 | 2646 | 2655 | 2663 | 2672 | 2680 | |
| 43 | 2689 | 2698 | 2706 | 2715 | 2723 | 2732 | 2741 | 2749 | 2758 | 2766 | |
| 44 | 2775 | 2784 | 2792 | 2801 | 2810 | 2818 | 2827 | 2835 | 2844 | 2853 | |
| 45 | 70 2861 | 2870 | 2878 | 2887 | 2896 | 2904 | 2913 | 2921 | 2930 | 2939 | |
| 46 | 2947 | 2956 | 2964 | 2973 | 2982 | 2990 | 2999 | 3007 | 3016 | 3025 | |
| 47 | 3033 | 3042 | 3051 | 3059 | 3068 | 3076 | 3085 | 3094 | 3102 | 3111 | |
| 48 | 3119 | 3128 | 3137 | 3145 | 3154 | 3162 | 3171 | 3180 | 3188 | 3197 | |
| 49 | 3205 | 3214 | 3223 | 3231 | 3240 | 3248 | 3257 | 3266 | 3274 | 3283 | |
| 5050 | 70 3291 | 3300 | 3309 | 3317 | 3326 | 3334 | 3343 | 3352 | 3360 | 3369 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 50000" = 13° 53' 20" | | | | 50000" = 13° 23' 20" | | | S. 4,685 | 532 | T. 660 | |
| | 50100 = 13 55 0 | | | | 50100 = 13 23 30 | | | | 532 | 660 | |
| | 50200 = 13 56 40 | | | | 50200 = 13 23 40 | | | | 532 | 661 | |
| | 50300 = 13 58 20 | | | | 50300 = 13 23 50 | | | | 532 | 661 | |
| | 50400 = 14 0 0 | | | | 50400 = 14 24 0 | | | | 532 | 661 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|--------------------|------|------|------|----------|------|--------|-------|
| 5050 | 70 3291 | 3300 | 3309 | 3317 | 3326 | 3334 | 3343 | 3352 | 3360 | 3369 | |
| 51 | 3377 | 3386 | 3395 | 3403 | 3412 | 3420 | 3429 | 3438 | 3446 | 3455 | |
| 52 | 3463 | 3472 | 3481 | 3489 | 3498 | 3506 | 3515 | 3524 | 3532 | 3541 | |
| 53 | 3549 | 3558 | 3566 | 3575 | 3584 | 3592 | 3601 | 3609 | 3618 | 3627 | |
| 54 | 3635 | 3644 | 3652 | 3661 | 3670 | 3678 | 3687 | 3695 | 3704 | 3713 | |
| 55 | 70 3721 | 3730 | 3738 | 3747 | 3756 | 3764 | 3773 | 3781 | 3790 | 3798 | |
| 56 | 3807 | 3816 | 3824 | 3833 | 3841 | 3850 | 3859 | 3867 | 3876 | 3884 | |
| 57 | 3893 | 3902 | 3910 | 3919 | 3927 | 3936 | 3944 | 3953 | 3962 | 3970 | |
| 58 | 3979 | 3987 | 3996 | 4005 | 4013 | 4022 | 4030 | 4039 | 4048 | 4056 | |
| 59 | 4065 | 4073 | 4082 | 4090 | 4099 | 4108 | 4116 | 4125 | 4133 | 4142 | |
| 5060 | 70 4151 | 4159 | 4168 | 4176 | 4185 | 4193 | 4202 | 4211 | 4219 | 4228 | |
| 61 | 4236 | 4245 | 4253 | 4262 | 4271 | 4279 | 4288 | 4296 | 4305 | 4314 | 9 |
| 62 | 4322 | 4331 | 4339 | 4348 | 4356 | 4365 | 4374 | 4382 | 4391 | 4399 | 1 0.9 |
| 63 | 4408 | 4417 | 4425 | 4434 | 4442 | 4451 | 4459 | 4468 | 4477 | 4485 | 2 1.8 |
| 64 | 4494 | 4502 | 4511 | 4519 | 4528 | 4537 | 4545 | 4554 | 4562 | 4571 | 3 2.7 |
| 65 | 70 4579 | 4588 | 4597 | 4605 | 4614 | 4622 | 4631 | 4639 | 4648 | 4657 | 4 3.6 |
| 66 | 4665 | 4674 | 4682 | 4691 | 4699 | 4708 | 4717 | 4725 | 4734 | 4742 | 5 4.5 |
| 67 | 4751 | 4759 | 4768 | 4777 | 4785 | 4794 | 4802 | 4811 | 4819 | 4828 | 6 5.4 |
| 68 | 4837 | 4845 | 4854 | 4862 | 4871 | 4879 | 4888 | 4897 | 4905 | 4914 | 7 6.3 |
| 69 | 4922 | 4931 | 4939 | 4948 | 4957 | 4965 | 4974 | 4982 | 4991 | 4999 | 8 7.2 |
| 5070 | 70 5008 | 5017 | 5025 | 5034 | 5042 | 5051 | 5059 | 5068 | 5076 | 5085 | 9 8.1 |
| 71 | 5094 | 5102 | 5111 | 5119 | 5128 | 5136 | 5145 | 5154 | 5162 | 5171 | |
| 72 | 5179 | 5188 | 5196 | 5205 | 5213 | 5222 | 5231 | 5239 | 5248 | 5256 | |
| 73 | 5265 | 5273 | 5282 | 5291 | 5299 | 5308 | 5316 | 5325 | 5333 | 5342 | |
| 74 | 5350 | 5359 | 5368 | 5376 | 5385 | 5393 | 5402 | 5410 | 5419 | 5427 | |
| 75 | 70 5436 | 5445 | 5453 | 5462 | 5470 | 5479 | 5487 | 5496 | 5505 | 5513 | |
| 76 | 5522 | 5530 | 5539 | 5547 | 5556 | 5564 | 5573 | 5582 | 5590 | 5599 | |
| 77 | 5607 | 5616 | 5624 | 5633 | 5641 | 5650 | 5658 | 5667 | 5676 | 5684 | |
| 78 | 5693 | 5701 | 5710 | 5718 | 5727 | 5735 | 5744 | 5753 | 5761 | 5770 | |
| 79 | 5778 | 5787 | 5795 | 5804 | 5812 | 5821 | 5830 | 5838 | 5847 | 5855 | |
| 5080 | 70 5864 | 5872 | 5881 | 5889 | 5898 | 5906 | 5915 | 5924 | 5932 | 5941 | |
| 81 | 5949 | 5958 | 5966 | 5975 | 5983 | 5992 | 6000 | 6009 | 6018 | 6026 | |
| 82 | 6035 | 6043 | 6052 | 6060 | 6069 | 6077 | 6086 | 6094 | 6103 | 6112 | 1 0.8 |
| 83 | 6120 | 6129 | 6137 | 6146 | 6154 | 6163 | 6171 | 6180 | 6188 | 6197 | 2 1.6 |
| 84 | 6206 | 6214 | 6223 | 6231 | 6240 | 6248 | 6257 | 6265 | 6274 | 6282 | 3 2.4 |
| 85 | 70 6291 | 6299 | 6308 | 6317 | 6325 | 6334 | 6342 | 6351 | 6359 | 6368 | 4 3.2 |
| 86 | 6376 | 6385 | 6393 | 6402 | 6411 | 6419 | 6428 | 6436 | 6445 | 6453 | 5 4.0 |
| 87 | 6462 | 6470 | 6479 | 6487 | 6496 | 6504 | 6513 | 6521 | 6530 | 6539 | 6 5.6 |
| 88 | 6547 | 6556 | 6564 | 6573 | 6581 | 6590 | 6598 | 6607 | 6615 | 6624 | 7 6.4 |
| 89 | 6632 | 6641 | 6650 | 6658 | 6667 | 6675 | 6684 | 6692 | 6701 | 6709 | 8 7.2 |
| 5090 | 70 6718 | 6726 | 6735 | 6743 | 6752 | 6760 | 6769 | 6778 | 6786 | 6795 | |
| 91 | 6803 | 6812 | 6820 | 6829 | 6837 | 6846 | 6854 | 6863 | 6871 | 6880 | |
| 92 | 6888 | 6897 | 6905 | 6914 | 6923 | 6931 | 6940 | 6948 | 6957 | 6965 | |
| 93 | 6974 | 6982 | 6991 | 6999 | 7008 | 7016 | 7025 | 7033 | 7042 | 7050 | |
| 94 | 7059 | 7067 | 7076 | 7085 | 7093 | 7102 | 7110 | 7119 | 7127 | 7136 | |
| 95 | 70 7144 | 7153 | 7161 | 7170 | 7178 | 7187 | 7195 | 7204 | 7212 | 7221 | |
| 96 | 7229 | 7238 | 7246 | 7255 | 7264 | 7272 | 7281 | 7289 | 7298 | 7306 | |
| 97 | 7315 | 7323 | 7332 | 7340 | 7349 | 7357 | 7366 | 7374 | 7383 | 7391 | |
| 98 | 7400 | 7408 | 7417 | 7425 | 7434 | 7442 | 7451 | 7459 | 7468 | 7476 | |
| 99 | 7485 | 7494 | 7502 | 7511 | 7519 | 7528 | 7536 | 7545 | 7553 | 7562 | |
| 5100 | 70 7570 | 7579 | 7587 | 7596 | 7604 | 7613 | 7621 | 7630 | 7638 | 7647 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 50500" = 14° 1' 40" | | | 5050" = 1° 24' 10" | | | | S. 4.685 | 531 | T. 662 | |
| | 50600" = 14 3 20 | | | 5060" = 1 24 20 | | | | | 531 | 662 | |
| | 50700" = 14 5 0 | | | 5070" = 1 24 30 | | | | | 531 | 662 | |
| | 50800" = 14 6 40 | | | 5080" = 1 24 40 | | | | | 531 | 663 | |
| | 50900" = 14 8 20 | | | 5090" = 1 24 50 | | | | | 531 | 663 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|--------------------|------|------|------|--------------|--------|-------|
| 5100 | 70 7570 | 7579 | 7587 | 7596 | 7604 | 7613 | 7621 | 7630 | 7638 | 7647 | |
| 01 | 7655 | 7664 | 7672 | 7681 | 7689 | 7698 | 7706 | 7715 | 7723 | 7732 | |
| 02 | 7740 | 7749 | 7757 | 7766 | 7775 | 7783 | 7792 | 7800 | 7809 | 7817 | |
| 03 | 7826 | 7834 | 7843 | 7851 | 7860 | 7868 | 7877 | 7885 | 7894 | 7902 | |
| 04 | 7911 | 7919 | 7928 | 7936 | 7945 | 7953 | 7962 | 7970 | 7979 | 7987 | |
| 05 | 70 7996 | 8004 | 8013 | 8021 | 8030 | 8038 | 8047 | 8055 | 8064 | 8072 | |
| 06 | 8081 | 8089 | 8098 | 8106 | 8115 | 8123 | 8132 | 8140 | 8149 | 8157 | |
| 07 | 8166 | 8174 | 8183 | 8191 | 8200 | 8208 | 8217 | 8225 | 8234 | 8242 | |
| 08 | 8251 | 8259 | 8268 | 8276 | 8285 | 8293 | 8302 | 8310 | 8319 | 8327 | |
| 09 | 8336 | 8344 | 8353 | 8361 | 8370 | 8378 | 8387 | 8395 | 8404 | 8412 | |
| 5110 | 70 8421 | 8429 | 8438 | 8446 | 8455 | 8463 | 8472 | 8480 | 8489 | 8497 | |
| 11 | 8506 | 8514 | 8523 | 8531 | 8540 | 8548 | 8557 | 8565 | 8574 | 8582 | 9 |
| 12 | 8591 | 8599 | 8608 | 8616 | 8625 | 8633 | 8642 | 8650 | 8659 | 8667 | 1 0.9 |
| 13 | 8676 | 8684 | 8693 | 8701 | 8710 | 8718 | 8727 | 8735 | 8744 | 8752 | 2 1.8 |
| 14 | 8761 | 8769 | 8778 | 8786 | 8795 | 8803 | 8812 | 8820 | 8829 | 8837 | 3 2.7 |
| 15 | 70 8846 | 8854 | 8863 | 8871 | 8880 | 8888 | 8897 | 8905 | 8914 | 8922 | 4 3.6 |
| 16 | 8931 | 8939 | 8948 | 8956 | 8964 | 8973 | 8981 | 8990 | 8998 | 9007 | 5 4.5 |
| 17 | 9015 | 9024 | 9032 | 9041 | 9049 | 9058 | 9066 | 9075 | 9083 | 9092 | 6 5.4 |
| 18 | 9100 | 9109 | 9117 | 9126 | 9134 | 9143 | 9151 | 9160 | 9168 | 9177 | 7 6.3 |
| 19 | 9185 | 9194 | 9202 | 9211 | 9219 | 9228 | 9236 | 9245 | 9253 | 9261 | 8 7.2 |
| 5120 | 70 9270 | 9278 | 9287 | 9295 | 9304 | 9312 | 9321 | 9329 | 9338 | 9346 | 9 8.1 |
| 21 | 9355 | 9363 | 9372 | 9380 | 9389 | 9397 | 9406 | 9414 | 9423 | 9431 | |
| 22 | 9440 | 9448 | 9457 | 9465 | 9473 | 9482 | 9490 | 9499 | 9507 | 9516 | |
| 23 | 9524 | 9533 | 9541 | 9550 | 9558 | 9567 | 9575 | 9584 | 9592 | 9601 | |
| 24 | 9609 | 9618 | 9626 | 9635 | 9643 | 9651 | 9660 | 9668 | 9677 | 9685 | |
| 25 | 70 9694 | 9702 | 9711 | 9719 | 9728 | 9736 | 9745 | 9753 | 9762 | 9770 | |
| 26 | 9779 | 9787 | 9796 | 9804 | 9812 | 9821 | 9829 | 9838 | 9846 | 9855 | |
| 27 | 9863 | 9872 | 9880 | 9889 | 9897 | 9906 | 9914 | 9923 | 9931 | 9940 | |
| 28 | 9948 | 9956 | 9965 | 9973 | 9982 | 9990 | 9999 | 0007 | 0016 | 0024 | |
| 29 | 71 0033 | 0041 | 0050 | 0058 | 0067 | 0075 | 0084 | 0092 | 0100 | 0109 | |
| 5130 | 71 0117 | 0126 | 0134 | 0143 | 0151 | 0160 | 0168 | 0177 | 0185 | 0194 | |
| 31 | 0202 | 0210 | 0219 | 0227 | 0236 | 0244 | 0253 | 0261 | 0270 | 0278 | 8 |
| 32 | 0287 | 0295 | 0304 | 0312 | 0320 | 0329 | 0337 | 0346 | 0354 | 0363 | 1 0.8 |
| 33 | 0371 | 0380 | 0388 | 0397 | 0405 | 0414 | 0422 | 0430 | 0439 | 0447 | 2 1.6 |
| 34 | 0456 | 0464 | 0473 | 0481 | 0490 | 0498 | 0507 | 0515 | 0524 | 0532 | 3 2.4 |
| 35 | 71 0540 | 0549 | 0557 | 0566 | 0574 | 0583 | 0591 | 0600 | 0608 | 0617 | 4 3.2 |
| 36 | 0625 | 0633 | 0642 | 0650 | 0659 | 0667 | 0676 | 0684 | 0693 | 0701 | 5 4.0 |
| 37 | 0710 | 0718 | 0726 | 0735 | 0743 | 0752 | 0760 | 0769 | 0777 | 0786 | 6 4.8 |
| 38 | 0794 | 0803 | 0811 | 0819 | 0828 | 0836 | 0845 | 0853 | 0862 | 0870 | 7 5.6 |
| 39 | 0879 | 0887 | 0896 | 0904 | 0912 | 0921 | 0929 | 0938 | 0946 | 0955 | 8 6.4 |
| 5140 | 71 0963 | 0972 | 0980 | 0988 | 0997 | 1005 | 1014 | 1022 | 1031 | 1039 | 9 7.2 |
| 41 | 1048 | 1056 | 1064 | 1073 | 1081 | 1090 | 1098 | 1107 | 1115 | 1124 | |
| 42 | 1132 | 1141 | 1149 | 1157 | 1166 | 1174 | 1183 | 1191 | 1200 | 1208 | |
| 43 | 1217 | 1225 | 1233 | 1242 | 1250 | 1259 | 1267 | 1276 | 1284 | 1293 | |
| 44 | 1301 | 1309 | 1318 | 1326 | 1335 | 1343 | 1352 | 1360 | 1368 | 1377 | |
| 45 | 71 1385 | 1394 | 1402 | 1411 | 1419 | 1428 | 1436 | 1444 | 1453 | 1461 | |
| 46 | 1470 | 1478 | 1487 | 1495 | 1504 | 1512 | 1520 | 1529 | 1537 | 1546 | |
| 47 | 1554 | 1563 | 1571 | 1579 | 1588 | 1596 | 1605 | 1613 | 1622 | 1630 | |
| 48 | 1639 | 1647 | 1655 | 1664 | 1672 | 1681 | 1689 | 1698 | 1706 | 1714 | |
| 49 | 1723 | 1731 | 1740 | 1748 | 1757 | 1765 | 1773 | 1782 | 1790 | 1799 | |
| 5150 | 71 1807 | 1816 | 1824 | 1833 | 1841 | 1849 | 1858 | 1866 | 1875 | 1883 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 51000" = 14° 10' 0" | | | | 51100" = 1° 25' 0" | | | | S. 4,685 531 | T. 663 | |
| | 51100" = 14 11 40 | | | | 51100" = 1 25 10 | | | | 530 | 664 | |
| | 51200" = 14 13 20 | | | | 51200" = 1 25 20 | | | | 530 | 664 | |
| | 51300" = 14 15 0 | | | | 51300" = 1 25 30 | | | | 530 | 664 | |
| | 51400" = 14 16 40 | | | | 51400" = 1 25 40 | | | | 530 | 665 | |

| x | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|--------|--------------|------|------|---------------------|------|------|-------|
| 5150 | 71 1877 | 1816 | 1824 | 1833 | 1841 | 1849 | 1858 | 1866 | 1875 | 1883 | |
| 51 | 1892 | 1900 | 1908 | 1917 | 1925 | 1934 | 1942 | 1951 | 1959 | 1967 | |
| 52 | 1976 | 1984 | 1993 | 2001 | 2010 | 2018 | 2026 | 2035 | 2043 | 2052 | |
| 53 | 2060 | 2069 | 2077 | 2085 | 2094 | 2102 | 2111 | 2119 | 2128 | 2136 | |
| 54 | 2144 | 2153 | 2161 | 2170 | 2178 | 2187 | 2195 | 2203 | 2212 | 2220 | |
| 55 | 71 2229 | 2237 | 2246 | 2254 | 2262 | 2271 | 2279 | 2288 | 2296 | 2304 | |
| 56 | 2313 | 2321 | 2330 | 2338 | 2347 | 2355 | 2363 | 2372 | 2380 | 2389 | |
| 57 | 2397 | 2406 | 2414 | 2422 | 2431 | 2439 | 2448 | 2456 | 2464 | 2473 | |
| 58 | 2481 | 2490 | 2498 | 2507 | 2515 | 2523 | 2532 | 2540 | 2549 | 2557 | |
| 59 | 2566 | 2574 | 2582 | 2591 | 2599 | 2608 | 2616 | 2624 | 2633 | 2641 | |
| 5160 | 71 2650 | 2658 | 2667 | 2675 | 2683 | 2692 | 2700 | 2709 | 2717 | 2725 | |
| 61 | 2734 | 2742 | 2751 | 2759 | 2768 | 2776 | 2784 | 2793 | 2801 | 2810 | 9 |
| 62 | 2818 | 2826 | 2835 | 2843 | 2852 | 2860 | 2868 | 2877 | 2885 | 2894 | 1 0.9 |
| 63 | 2902 | 2911 | 2919 | 2927 | 2936 | 2944 | 2953 | 2961 | 2969 | 2978 | 2 1.8 |
| 64 | 2986 | 2995 | 3003 | 3011 | 3020 | 3028 | 3037 | 3045 | 3054 | 3062 | 3 2.7 |
| 65 | 71 3070 | 3079 | 3087 | 3096 | 3104 | 3112 | 3121 | 3129 | 3138 | 3146 | 4 3.6 |
| 66 | 3154 | 3163 | 3171 | 3180 | 3188 | 3196 | 3205 | 3213 | 3222 | 3230 | 5 4.5 |
| 67 | 3238 | 3247 | 3255 | 3264 | 3272 | 3280 | 3289 | 3297 | 3306 | 3314 | 6 5.4 |
| 68 | 3323 | 3331 | 3339 | 3348 | 3356 | 3365 | 3373 | 3381 | 3390 | 3398 | 7 6.3 |
| 69 | 3407 | 3415 | 3423 | 3432 | 3440 | 3449 | 3457 | 3465 | 3474 | 3482 | 8 7.2 |
| 5170 | 71 3491 | 3499 | 3507 | 3516 | 3524 | 3533 | 3541 | 3549 | 3558 | 3566 | 9 8.1 |
| 71 | 3575 | 3583 | 3591 | 3600 | 3608 | 3617 | 3625 | 3633 | 3642 | 3650 | |
| 72 | 3659 | 3667 | 3675 | 3684 | 3692 | 3700 | 3709 | 3717 | 3726 | 3734 | |
| 73 | 3742 | 3751 | 3759 | 3768 | 3776 | 3784 | 3793 | 3801 | 3810 | 3818 | |
| 74 | 3826 | 3835 | 3843 | 3852 | 3860 | 3868 | 3877 | 3885 | 3894 | 3902 | |
| 75 | 71 3910 | 3919 | 3927 | 3936 | 3944 | 3952 | 3961 | 3969 | 3977 | 3986 | |
| 76 | 3994 | 4003 | 4011 | 4019 | 4028 | 4036 | 4045 | 4053 | 4061 | 4070 | |
| 77 | 4078 | 4087 | 4095 | 4103 | 4112 | 4120 | 4128 | 4137 | 4145 | 4154 | |
| 78 | 4162 | 4170 | 4179 | 4187 | 4196 | 4204 | 4212 | 4221 | 4229 | 4238 | |
| 79 | 4246 | 4254 | 4263 | 4271 | 4279 | 4288 | 4296 | 4305 | 4313 | 4321 | |
| 5180 | 71 4330 | 4338 | 4347 | 4355 | 4363 | 4372 | 4380 | 4388 | 4397 | 4405 | |
| 81 | 4414 | 4422 | 4430 | 4439 | 4447 | 4456 | 4464 | 4472 | 4481 | 4489 | 8 |
| 82 | 4497 | 4506 | 4514 | 4523 | 4531 | 4539 | 4548 | 4556 | 4564 | 4573 | 1 0.8 |
| 83 | 4581 | 4590 | 4598 | 4606 | 4615 | 4623 | 4631 | 4640 | 4648 | 4657 | 2 1.6 |
| 84 | 4665 | 4673 | 4682 | 4690 | 4699 | 4707 | 4715 | 4724 | 4732 | 4740 | 3 2.4 |
| 85 | 71 4749 | 4757 | 4766 | 4774 | 4782 | 4791 | 4799 | 4807 | 4816 | 4824 | 4 3.2 |
| 86 | 4833 | 4841 | 4849 | 4858 | 4866 | 4874 | 4883 | 4891 | 4900 | 4908 | 5 4.0 |
| 87 | 4916 | 4925 | 4933 | 4941 | 4950 | 4958 | 4966 | 4975 | 4983 | 4992 | 6 4.8 |
| 88 | 5000 | 5008 | 5017 | 5025 | 5033 | 5042 | 5050 | 5059 | 5067 | 5075 | 7 5.6 |
| 89 | 5084 | 5092 | 5100 | 5109 | 5117 | 5126 | 5134 | 5142 | 5151 | 5159 | 8 6.4 |
| 5190 | 71 5167 | 5176 | 5184 | 5192 | 5201 | 5209 | 5218 | 5226 | 5234 | 5243 | 9 7.2 |
| 91 | 5251 | 5259 | 5268 | 5276 | 5284 | 5293 | 5301 | 5310 | 5318 | 5326 | |
| 92 | 5335 | 5343 | 5351 | 5360 | 5368 | 5377 | 5385 | 5393 | 5402 | 5410 | |
| 93 | 5418 | 5427 | 5435 | 5443 | 5452 | 5460 | 5468 | 5477 | 5485 | 5494 | |
| 94 | 5502 | 5510 | 5519 | 5527 | 5535 | 5544 | 5552 | 5560 | 5569 | 5577 | |
| 95 | 71 5586 | 5594 | 5602 | 5611 | 5619 | 5627 | 5636 | 5644 | 5652 | 5661 | |
| 96 | 5669 | 5678 | 5686 | 5694 | 5703 | 5711 | 5719 | 5728 | 5736 | 5744 | |
| 97 | 5753 | 5761 | 5769 | 5778 | 5786 | 5794 | 5803 | 5811 | 5820 | 5828 | |
| 98 | 5836 | 5845 | 5853 | 5861 | 5870 | 5878 | 5886 | 5895 | 5903 | 5911 | |
| 99 | 5920 | 5928 | 5937 | 5945 | 5953 | 5962 | 5970 | 5978 | 5987 | 5995 | |
| 5200 | 71 6003 | 6012 | 6020 | 6028 | 6037 | 6045 | 6053 | 6062 | 6070 | 6079 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 51500" | = 14° 18' 20" | | | 51500" | = 1° 25' 50" | | | S. 4,685 530 T. 665 | | | |
| 51600 | = 14 20 0 | | | 51600 | = 1 26 0 | | | 530 665 | | | |
| 51700 | = 14 21 40 | | | 51700 | = 1 26 10 | | | 529 666 | | | |
| 51800 | = 14 23 20 | | | 51800 | = 1 26 20 | | | 529 666 | | | |
| 51900 | = 14 25 0 | | | 51900 | = 1 26 30 | | | 529 667 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | N.pp. |
|-------|---------------|------|------|------|-------|--------------|------|---------------------|------|------|-------|
| 5200 | 71 6003 | 6012 | 6020 | 6028 | 6037 | 6045 | 6053 | 6062 | 6070 | 6079 | |
| 01 | 6087 | 6095 | 6104 | 6112 | 6120 | 6129 | 6137 | 6145 | 6154 | 6162 | |
| 02 | 6170 | 6179 | 6187 | 6195 | 6204 | 6212 | 6220 | 6229 | 6237 | 6245 | |
| 03 | 6254 | 6262 | 6271 | 6279 | 6287 | 6296 | 6304 | 6312 | 6321 | 6329 | |
| 04 | 6337 | 6346 | 6354 | 6362 | 6371 | 6379 | 6387 | 6396 | 6404 | 6412 | |
| 05 | 71 6421 | 6429 | 6437 | 6446 | 6454 | 6462 | 6471 | 6479 | 6487 | 6496 | |
| 06 | 6504 | 6513 | 6521 | 6529 | 6538 | 6546 | 6554 | 6563 | 6571 | 6579 | |
| 07 | 6588 | 6596 | 6604 | 6613 | 6621 | 6629 | 6638 | 6646 | 6654 | 6663 | |
| 08 | 6671 | 6679 | 6688 | 6696 | 6704 | 6713 | 6721 | 6729 | 6738 | 6746 | |
| 09 | 6754 | 6763 | 6771 | 6779 | 6788 | 6796 | 6804 | 6813 | 6821 | 6829 | |
| 5210 | 71 6838 | 6846 | 6854 | 6863 | 6871 | 6879 | 6888 | 6896 | 6904 | 6913 | |
| 11 | 6921 | 6929 | 6938 | 6946 | 6954 | 6963 | 6971 | 6979 | 6988 | 6996 | 9 |
| 12 | 7004 | 7013 | 7021 | 7029 | 7038 | 7046 | 7054 | 7063 | 7071 | 7079 | 1 0.9 |
| 13 | 7088 | 7096 | 7104 | 7113 | 7121 | 7129 | 7138 | 7146 | 7154 | 7163 | 2 1.8 |
| 14 | 7171 | 7179 | 7188 | 7196 | 7204 | 7213 | 7221 | 7229 | 7238 | 7246 | 3 2.7 |
| 15 | 71 7254 | 7263 | 7271 | 7279 | 7288 | 7296 | 7304 | 7313 | 7321 | 7329 | 4 3.6 |
| 16 | 7338 | 7346 | 7354 | 7363 | 7371 | 7379 | 7388 | 7396 | 7404 | 7413 | 5 4.5 |
| 17 | 7421 | 7429 | 7437 | 7446 | 7454 | 7462 | 7471 | 7479 | 7487 | 7496 | 6 5.4 |
| 18 | 7504 | 7512 | 7521 | 7529 | 7537 | 7546 | 7554 | 7562 | 7571 | 7579 | 7 6.3 |
| 19 | 7587 | 7596 | 7604 | 7612 | 7621 | 7629 | 7637 | 7646 | 7654 | 7662 | 8 7.2 |
| 5220 | 71 7671 | 7679 | 7687 | 7695 | 7704 | 7712 | 7720 | 7729 | 7737 | 7745 | 9 8.1 |
| 21 | 7754 | 7762 | 7770 | 7779 | 7787 | 7795 | 7804 | 7812 | 7820 | 7829 | |
| 22 | 7837 | 7845 | 7854 | 7862 | 7870 | 7878 | 7887 | 7895 | 7903 | 7912 | |
| 23 | 7920 | 7928 | 7937 | 7945 | 7953 | 7962 | 7970 | 7978 | 7987 | 7995 | |
| 24 | 8003 | 8011 | 8020 | 8028 | 8036 | 8045 | 8053 | 8061 | 8070 | 8078 | |
| 25 | 71 8086 | 8095 | 8103 | 8111 | 8120 | 8128 | 8136 | 8144 | 8153 | 8161 | |
| 26 | 8169 | 8178 | 8186 | 8194 | 8203 | 8211 | 8219 | 8228 | 8236 | 8244 | |
| 27 | 8253 | 8261 | 8269 | 8277 | 8286 | 8294 | 8302 | 8311 | 8319 | 8327 | |
| 28 | 8336 | 8344 | 8352 | 8360 | 8369 | 8377 | 8385 | 8394 | 8402 | 8410 | |
| 29 | 8419 | 8427 | 8435 | 8444 | 8452 | 8460 | 8468 | 8477 | 8485 | 8493 | |
| 5230 | 71 8502 | 8510 | 8518 | 8527 | 8535 | 8543 | 8552 | 8560 | 8568 | 8576 | |
| 31 | 8585 | 8593 | 8601 | 8610 | 8618 | 8626 | 8635 | 8643 | 8651 | 8659 | |
| 32 | 8668 | 8676 | 8684 | 8693 | 8701 | 8709 | 8718 | 8726 | 8734 | 8742 | |
| 33 | 8751 | 8759 | 8767 | 8776 | 8784 | 8792 | 8801 | 8809 | 8817 | 8825 | |
| 34 | 8834 | 8842 | 8850 | 8859 | 8867 | 8875 | 8884 | 8892 | 8900 | 8908 | |
| 35 | 71 8917 | 8925 | 8933 | 8942 | 8950 | 8958 | 8966 | 8975 | 8983 | 8991 | |
| 36 | 9000 | 9008 | 9016 | 9025 | 9033 | 9041 | 9049 | 9058 | 9066 | 9074 | |
| 37 | 9083 | 9091 | 9099 | 9107 | 9116 | 9124 | 9132 | 9141 | 9149 | 9157 | |
| 38 | 9165 | 9174 | 9182 | 9190 | 9199 | 9207 | 9215 | 9224 | 9232 | 9240 | |
| 39 | 9248 | 9257 | 9265 | 9273 | 9282 | 9290 | 9298 | 9306 | 9315 | 9323 | |
| 5240 | 71 9331 | 9340 | 9348 | 9356 | 9364 | 9373 | 9381 | 9389 | 9398 | 9406 | |
| 41 | 9414 | 9422 | 9431 | 9439 | 9447 | 9456 | 9464 | 9472 | 9480 | 9489 | |
| 42 | 9497 | 9505 | 9514 | 9522 | 9530 | 9538 | 9547 | 9555 | 9563 | 9572 | |
| 43 | 9580 | 9588 | 9596 | 9605 | 9613 | 9621 | 9630 | 9638 | 9646 | 9654 | |
| 44 | 9663 | 9671 | 9679 | 9688 | 9696 | 9704 | 9712 | 9721 | 9729 | 9737 | |
| 45 | 71 9745 | 9753 | 9762 | 9770 | 9779 | 9787 | 9795 | 9803 | 9812 | 9820 | |
| 46 | 9828 | 9837 | 9845 | 9853 | 9861 | 9870 | 9878 | 9886 | 9895 | 9903 | |
| 47 | 9911 | 9920 | 9928 | 9936 | 9944 | 9952 | 9961 | 9969 | 9977 | 9986 | |
| 48 | 9994 | 0002 | 0010 | 0019 | 0027 | 0035 | 0043 | 0052 | 0060 | 0068 | |
| 49 | 72 0077 | 0085 | 0093 | 0101 | 0110 | 0118 | 0126 | 0134 | 0143 | 0151 | |
| 5250 | 72 0159 | 0168 | 0176 | 0184 | 0192 | 0201 | 0209 | 0217 | 0225 | 0234 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 52000 | = 14° 26' 40" | | | | 52000 | = 1° 26' 40" | | S. 4.685 529 T. 667 | | | |
| 52100 | = 14 28 20 | | | | 52100 | = 1 26 50 | | 529 667 | | | |
| 52200 | = 14 30 0 | | | | 52200 | = 1 27 0 | | 529 668 | | | |
| 52300 | = 14 31 40 | | | | 52300 | = 1 27 10 | | 528 668 | | | |
| 52400 | = 14 33 20 | | | | 52400 | = 1 27 20 | | 528 668 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|--------------|------|------|------|---------------------|------|------|----------|------|--------|-------|
| 5250 | 72 0159 | 0168 | 0176 | 0184 | 0192 | 0201 | 0209 | 0217 | 0225 | 0234 | |
| 51 | 0242 | 0250 | 0259 | 0267 | 0275 | 0283 | 0292 | 0300 | 0308 | 0316 | |
| 52 | 0325 | 0333 | 0341 | 0350 | 0358 | 0366 | 0374 | 0383 | 0391 | 0399 | |
| 53 | 0407 | 0416 | 0424 | 0432 | 0440 | 0449 | 0457 | 0465 | 0474 | 0482 | |
| 54 | 0490 | 0498 | 0507 | 0515 | 0523 | 0531 | 0540 | 0548 | 0556 | 0564 | |
| 55 | 72 0573 | 0581 | 0589 | 0598 | 0606 | 0614 | 0622 | 0631 | 0639 | 0647 | |
| 56 | 0655 | 0664 | 0672 | 0680 | 0688 | 0697 | 0705 | 0713 | 0721 | 0730 | |
| 57 | 0738 | 0746 | 0754 | 0763 | 0771 | 0779 | 0788 | 0796 | 0804 | 0812 | |
| 58 | 0821 | 0829 | 0837 | 0845 | 0854 | 0862 | 0870 | 0878 | 0887 | 0895 | |
| 59 | 0903 | 0911 | 0920 | 0928 | 0936 | 0944 | 0953 | 0961 | 0969 | 0977 | |
| 5260 | 72 0986 | 0994 | 1002 | 1011 | 1019 | 1027 | 1035 | 1044 | 1052 | 1060 | |
| 61 | 1068 | 1077 | 1085 | 1093 | 1101 | 1110 | 1118 | 1126 | 1134 | 1143 | 9 |
| 62 | 1151 | 1159 | 1167 | 1176 | 1184 | 1192 | 1200 | 1209 | 1217 | 1225 | 1 0.9 |
| 63 | 1233 | 1242 | 1250 | 1258 | 1266 | 1275 | 1283 | 1291 | 1299 | 1308 | 2 1.8 |
| 64 | 1316 | 1324 | 1332 | 1341 | 1349 | 1357 | 1365 | 1374 | 1382 | 1390 | 3 2.7 |
| 65 | 72 1398 | 1407 | 1415 | 1423 | 1431 | 1440 | 1448 | 1456 | 1464 | 1473 | 4 3.6 |
| 66 | 1481 | 1489 | 1497 | 1506 | 1514 | 1522 | 1530 | 1539 | 1547 | 1555 | 5 4.5 |
| 67 | 1563 | 1572 | 1580 | 1588 | 1596 | 1605 | 1613 | 1621 | 1629 | 1638 | 6 5.4 |
| 68 | 1646 | 1654 | 1662 | 1670 | 1679 | 1687 | 1695 | 1703 | 1712 | 1720 | 7 6.3 |
| 69 | 1728 | 1736 | 1745 | 1753 | 1761 | 1769 | 1778 | 1786 | 1794 | 1802 | 8 7.2 |
| 5270 | 72 1811 | 1819 | 1827 | 1835 | 1844 | 1852 | 1860 | 1868 | 1877 | 1885 | 9 8.1 |
| 71 | 1893 | 1901 | 1909 | 1918 | 1926 | 1934 | 1942 | 1951 | 1959 | 1967 | |
| 72 | 1975 | 1984 | 1992 | 2000 | 2008 | 2017 | 2025 | 2033 | 2041 | 2050 | |
| 73 | 2058 | 2066 | 2074 | 2082 | 2091 | 2099 | 2107 | 2115 | 2124 | 2132 | |
| 74 | 2140 | 2148 | 2157 | 2165 | 2173 | 2181 | 2190 | 2198 | 2206 | 2214 | |
| 75 | 72 2222 | 2231 | 2239 | 2247 | 2255 | 2264 | 2272 | 2280 | 2288 | 2297 | |
| 76 | 2305 | 2313 | 2321 | 2329 | 2338 | 2346 | 2354 | 2362 | 2371 | 2379 | |
| 77 | 2387 | 2395 | 2404 | 2412 | 2420 | 2428 | 2436 | 2445 | 2453 | 2461 | |
| 78 | 2469 | 2478 | 2486 | 2494 | 2502 | 2511 | 2519 | 2527 | 2535 | 2543 | |
| 79 | 2552 | 2560 | 2568 | 2576 | 2585 | 2593 | 2601 | 2609 | 2617 | 2626 | |
| 5280 | 72 2634 | 2642 | 2650 | 2659 | 2667 | 2675 | 2683 | 2691 | 2700 | 2708 | |
| 81 | 2716 | 2724 | 2733 | 2741 | 2750 | 2758 | 2767 | 2775 | 2784 | 2792 | 8 |
| 82 | 2801 | 2809 | 2817 | 2825 | 2834 | 2842 | 2851 | 2859 | 2868 | 2876 | 1 0.8 |
| 83 | 2884 | 2892 | 2901 | 2909 | 2918 | 2926 | 2935 | 2943 | 2952 | 2960 | 2 1.6 |
| 84 | 2963 | 2971 | 2979 | 2987 | 2996 | 3004 | 3012 | 3020 | 3029 | 3037 | 3 2.4 |
| 85 | 72 3045 | 3053 | 3061 | 3070 | 3078 | 3086 | 3094 | 3103 | 3111 | 3119 | 4 3.2 |
| 86 | 3127 | 3135 | 3144 | 3152 | 3160 | 3168 | 3176 | 3185 | 3193 | 3201 | 5 4.0 |
| 87 | 3209 | 3218 | 3226 | 3234 | 3242 | 3250 | 3259 | 3267 | 3275 | 3283 | 6 4.8 |
| 88 | 3291 | 3300 | 3308 | 3316 | 3324 | 3333 | 3341 | 3349 | 3357 | 3365 | 7 5.6 |
| 89 | 3374 | 3382 | 3390 | 3398 | 3406 | 3415 | 3423 | 3431 | 3439 | 3447 | 8 6.4 |
| 5290 | 72 3456 | 3464 | 3472 | 3480 | 3489 | 3497 | 3505 | 3513 | 3521 | 3530 | 9 7.2 |
| 91 | 3538 | 3546 | 3554 | 3562 | 3571 | 3579 | 3587 | 3595 | 3603 | 3612 | |
| 92 | 3620 | 3628 | 3636 | 3644 | 3653 | 3661 | 3669 | 3677 | 3685 | 3694 | |
| 93 | 3702 | 3710 | 3718 | 3727 | 3735 | 3743 | 3751 | 3759 | 3768 | 3776 | |
| 94 | 3784 | 3792 | 3800 | 3809 | 3817 | 3825 | 3833 | 3841 | 3850 | 3858 | |
| 95 | 72 3866 | 3874 | 3882 | 3891 | 3899 | 3907 | 3915 | 3923 | 3932 | 3940 | |
| 96 | 3948 | 3956 | 3964 | 3973 | 3981 | 3989 | 3997 | 4005 | 4014 | 4022 | |
| 97 | 4030 | 4038 | 4046 | 4055 | 4063 | 4071 | 4079 | 4087 | 4096 | 4104 | |
| 98 | 4112 | 4120 | 4128 | 4137 | 4145 | 4153 | 4161 | 4169 | 4178 | 4186 | |
| 99 | 4194 | 4202 | 4210 | 4219 | 4227 | 4235 | 4243 | 4251 | 4259 | 4268 | |
| 5300 | 72 4276 | 4284 | 4292 | 4300 | 4309 | 4317 | 4325 | 4333 | 4341 | 4350 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 52500" | = 14° 35' 0" | | | | 52500" = 1° 27' 30" | | | S. 4,685 | 528 | T. 669 | |
| 52600 | = 14 36 40 | | | | 52600 = 1 27 40 | | | | 528 | 669 | |
| 52700 | = 14 38 20 | | | | 52700 = 1 27 50 | | | | 528 | 669 | |
| 52800 | = 14 40 0 | | | | 52800 = 1 28 0 | | | | 527 | 670 | |
| 52900 | = 14 41 40 | | | | 52900 = 1 28 10 | | | | 527 | 670 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|--------|------------|------|----------|------|--------|-------|
| 5300 | 72 4276 | 4284 | 4292 | 4300 | 4309 | 4317 | 4325 | 4333 | 4341 | 4350 | |
| 01 | 4358 | 4366 | 4374 | 4382 | 4391 | 4399 | 4407 | 4415 | 4423 | 4432 | |
| 02 | 4440 | 4448 | 4456 | 4464 | 4472 | 4481 | 4489 | 4497 | 4505 | 4513 | |
| 03 | 4522 | 4530 | 4538 | 4546 | 4554 | 4563 | 4571 | 4579 | 4587 | 4595 | |
| 04 | 4604 | 4612 | 4620 | 4628 | 4636 | 4644 | 4653 | 4661 | 4669 | 4677 | |
| 05 | 72 4685 | 4694 | 4702 | 4710 | 4718 | 4726 | 4735 | 4743 | 4751 | 4759 | |
| 06 | 4767 | 4775 | 4784 | 4792 | 4800 | 4808 | 4816 | 4825 | 4833 | 4841 | |
| 07 | 4849 | 4857 | 4865 | 4874 | 4882 | 4890 | 4898 | 4906 | 4915 | 4923 | |
| 08 | 4931 | 4939 | 4947 | 4955 | 4964 | 4972 | 4980 | 4988 | 4996 | 5005 | |
| 09 | 5013 | 5021 | 5029 | 5037 | 5045 | 5054 | 5062 | 5070 | 5078 | 5086 | |
| 5310 | 72 5095 | 5103 | 5111 | 5119 | 5127 | 5135 | 5144 | 5152 | 5160 | 5168 | |
| 11 | 5176 | 5184 | 5193 | 5201 | 5209 | 5217 | 5225 | 5234 | 5242 | 5250 | 9 |
| 12 | 5258 | 5266 | 5274 | 5283 | 5291 | 5299 | 5307 | 5315 | 5323 | 5332 | 1 0.9 |
| 13 | 5340 | 5348 | 5356 | 5364 | 5373 | 5381 | 5389 | 5397 | 5405 | 5413 | 2 1.8 |
| 14 | 5422 | 5430 | 5438 | 5446 | 5454 | 5462 | 5471 | 5479 | 5487 | 5495 | 3 2.7 |
| 15 | 72 5503 | 5511 | 5520 | 5528 | 5536 | 5544 | 5552 | 5560 | 5569 | 5577 | 4 3.6 |
| 16 | 5585 | 5593 | 5601 | 5609 | 5618 | 5626 | 5634 | 5642 | 5650 | 5658 | 5 4.5 |
| 17 | 5667 | 5675 | 5683 | 5691 | 5699 | 5707 | 5716 | 5724 | 5732 | 5740 | 6 5.4 |
| 18 | 5748 | 5756 | 5765 | 5773 | 5781 | 5789 | 5797 | 5805 | 5814 | 5822 | 7 6.3 |
| 19 | 5830 | 5838 | 5846 | 5854 | 5863 | 5871 | 5879 | 5887 | 5895 | 5903 | 8 7.2 |
| 5320 | 72 5912 | 5920 | 5928 | 5936 | 5944 | 5952 | 5961 | 5969 | 5977 | 5985 | 9 8.1 |
| 21 | 5993 | 6001 | 6010 | 6018 | 6026 | 6034 | 6042 | 6050 | 6058 | 6067 | |
| 22 | 6075 | 6083 | 6091 | 6099 | 6108 | 6116 | 6124 | 6132 | 6140 | 6148 | |
| 23 | 6156 | 6165 | 6173 | 6181 | 6189 | 6197 | 6205 | 6214 | 6222 | 6230 | |
| 24 | 6238 | 6246 | 6254 | 6263 | 6271 | 6279 | 6287 | 6295 | 6303 | 6311 | |
| 25 | 72 6320 | 6328 | 6336 | 6344 | 6352 | 6360 | 6369 | 6377 | 6385 | 6393 | |
| 26 | 6401 | 6409 | 6417 | 6426 | 6434 | 6442 | 6450 | 6458 | 6466 | 6474 | |
| 27 | 6483 | 6491 | 6499 | 6507 | 6515 | 6523 | 6532 | 6540 | 6548 | 6556 | |
| 28 | 6564 | 6572 | 6581 | 6589 | 6597 | 6605 | 6613 | 6621 | 6629 | 6637 | |
| 29 | 6646 | 6654 | 6662 | 6670 | 6678 | 6686 | 6695 | 6703 | 6711 | 6719 | |
| 5330 | 72 6727 | 6735 | 6744 | 6752 | 6760 | 6768 | 6776 | 6784 | 6792 | 6801 | |
| 31 | 6809 | 6817 | 6825 | 6833 | 6841 | 6849 | 6857 | 6865 | 6873 | 6881 | |
| 32 | 6890 | 6898 | 6906 | 6914 | 6922 | 6930 | 6938 | 6946 | 6954 | 6962 | 1 0.8 |
| 33 | 6972 | 6980 | 6988 | 6996 | 7004 | 7012 | 7020 | 7028 | 7036 | 7044 | 2 1.6 |
| 34 | 7053 | 7061 | 7069 | 7077 | 7086 | 7094 | 7102 | 7110 | 7118 | 7126 | 3 2.4 |
| 35 | 72 7134 | 7143 | 7151 | 7159 | 7167 | 7175 | 7183 | 7191 | 7200 | 7208 | 4 3.2 |
| 36 | 7216 | 7224 | 7232 | 7240 | 7248 | 7257 | 7265 | 7273 | 7281 | 7289 | 5 4.0 |
| 37 | 7297 | 7305 | 7313 | 7322 | 7330 | 7338 | 7346 | 7354 | 7362 | 7370 | 6 4.8 |
| 38 | 7379 | 7387 | 7395 | 7403 | 7411 | 7419 | 7427 | 7436 | 7444 | 7452 | 7 5.6 |
| 39 | 7460 | 7468 | 7476 | 7484 | 7492 | 7501 | 7509 | 7517 | 7525 | 7533 | 8 6.4 |
| 5340 | 72 7541 | 7549 | 7558 | 7566 | 7574 | 7582 | 7590 | 7598 | 7606 | 7614 | 9 7.2 |
| 41 | 7623 | 7631 | 7639 | 7647 | 7655 | 7663 | 7671 | 7679 | 7688 | 7696 | |
| 42 | 7704 | 7712 | 7720 | 7728 | 7736 | 7745 | 7753 | 7761 | 7769 | 7777 | |
| 43 | 7785 | 7793 | 7801 | 7810 | 7818 | 7826 | 7834 | 7842 | 7850 | 7858 | |
| 44 | 7866 | 7875 | 7883 | 7891 | 7899 | 7907 | 7915 | 7923 | 7931 | 7940 | |
| 45 | 72 7948 | 7956 | 7964 | 7972 | 7980 | 7988 | 7996 | 8005 | 8013 | 8021 | |
| 46 | 8029 | 8037 | 8045 | 8053 | 8061 | 8070 | 8078 | 8086 | 8094 | 8102 | |
| 47 | 8110 | 8118 | 8126 | 8135 | 8143 | 8151 | 8159 | 8167 | 8175 | 8183 | |
| 48 | 8191 | 8200 | 8208 | 8216 | 8224 | 8232 | 8240 | 8248 | 8256 | 8264 | |
| 49 | 8273 | 8281 | 8289 | 8297 | 8305 | 8313 | 8321 | 8329 | 8338 | 8346 | |
| 5350 | 72 8354 | 8362 | 8370 | 8378 | 8386 | 8394 | 8402 | 8411 | 8419 | 8427 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 53000" | 14° 43' 20" | | | | 53000" | 1° 28' 20" | | S. 4,685 | 527 | T. 670 | |
| 53100 | 14 45 0 | | | | 5310 | 1 28 30 | | | 527 | 671 | |
| 53200 | 14 46 40 | | | | 5320 | 1 28 40 | | | 527 | 671 | |
| 53300 | 14 48 20 | | | | 5330 | 1 28 50 | | | 527 | 672 | |
| 53400 | 14 50 0 | | | | 5340 | 1 29 0 | | | 526 | 672 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|-------|-------|--------------|-------|-------|----------|-------|--------|
| 5350 | 72 8354 | 8362 | 8370 | 8378 | 8386 | 8394 | 8402 | 8411 | 8419 | 8427 | |
| 51 | 8435 | 8443 | 8451 | 8459 | 8467 | 8476 | 8484 | 8492 | 8500 | 8508 | |
| 52 | 8516 | 8524 | 8532 | 8540 | 8549 | 8557 | 8565 | 8573 | 8581 | 8589 | |
| 53 | 8597 | 8605 | 8613 | 8622 | 8630 | 8638 | 8646 | 8654 | 8662 | 8670 | |
| 54 | 8678 | 8686 | 8695 | 8703 | 8711 | 8719 | 8727 | 8735 | 8743 | 8751 | |
| 55 | 72 8759 | 8768 | 8776 | 8784 | 8792 | 8800 | 8808 | 8816 | 8824 | 8832 | |
| 56 | 8841 | 8849 | 8857 | 8865 | 8873 | 8881 | 8889 | 8897 | 8905 | 8914 | |
| 57 | 8922 | 8930 | 8938 | 8946 | 8954 | 8962 | 8970 | 8978 | 8986 | 8995 | |
| 58 | 9003 | 9011 | 9019 | 9027 | 9035 | 9043 | 9051 | 9059 | 9068 | 9076 | |
| 59 | 9084 | 9092 | 9100 | 9108 | 9116 | 9124 | 9132 | 9140 | 9149 | 9157 | |
| 5360 | 72 9165 | 9173 | 9181 | 9189 | 9197 | 9205 | 9213 | 9222 | 9230 | 9238 | |
| 61 | 9246 | 9254 | 9262 | 9270 | 9278 | 9286 | 9294 | 9303 | 9311 | 9319 | 9 |
| 62 | 9327 | 9335 | 9343 | 9351 | 9359 | 9367 | 9375 | 9384 | 9392 | 9400 | 1 0.9 |
| 63 | 9408 | 9416 | 9424 | 9432 | 9440 | 9448 | 9456 | 9464 | 9473 | 9481 | 2 1.8 |
| 64 | 9489 | 9497 | 9505 | 9513 | 9521 | 9529 | 9537 | 9545 | 9554 | 9562 | 3 2.7 |
| 65 | 72 9570 | 9578 | 9586 | 9594 | 9602 | 9610 | 9618 | 9626 | 9634 | 9643 | 4 3.6 |
| 66 | 9651 | 9659 | 9667 | 9675 | 9683 | 9691 | 9699 | 9707 | 9715 | 9724 | 5 4.5 |
| 67 | 9732 | 9740 | 9748 | 9756 | 9764 | 9772 | 9780 | 9788 | 9796 | 9804 | 6 5.4 |
| 68 | 9813 | 9821 | 9829 | 9837 | 9845 | 9853 | 9861 | 9869 | 9877 | 9885 | 7 6.3 |
| 69 | 9893 | 9901 | 9910 | 9918 | 9926 | 9934 | 9942 | 9950 | 9958 | 9966 | 8 7.2 |
| 5370 | 72 9974 | 9982 | 9990 | 10000 | 10010 | 10020 | 10030 | 10040 | 10050 | 10060 | 9 8.1 |
| 71 | 0055 | 0063 | 0071 | 0079 | 0087 | 0096 | 0104 | 0112 | 0120 | 0128 | |
| 72 | 0136 | 0144 | 0152 | 0160 | 0168 | 0176 | 0185 | 0193 | 0201 | 0209 | |
| 73 | 0217 | 0225 | 0233 | 0241 | 0249 | 0257 | 0265 | 0273 | 0281 | 0290 | |
| 74 | 0298 | 0306 | 0314 | 0322 | 0330 | 0338 | 0346 | 0354 | 0362 | 0370 | |
| 75 | 73 0378 | 0387 | 0395 | 0403 | 0411 | 0419 | 0427 | 0435 | 0443 | 0451 | |
| 76 | 0459 | 0467 | 0475 | 0483 | 0492 | 0500 | 0508 | 0516 | 0524 | 0532 | |
| 77 | 0540 | 0548 | 0556 | 0564 | 0572 | 0580 | 0588 | 0597 | 0605 | 0613 | |
| 78 | 0621 | 0629 | 0637 | 0645 | 0653 | 0661 | 0669 | 0677 | 0685 | 0693 | |
| 79 | 0702 | 0710 | 0718 | 0726 | 0734 | 0742 | 0750 | 0758 | 0766 | 0774 | |
| 5380 | 73 0782 | 0790 | 0798 | 0806 | 0815 | 0823 | 0831 | 0839 | 0847 | 0855 | 8 |
| 81 | 0863 | 0871 | 0879 | 0887 | 0895 | 0903 | 0911 | 0919 | 0928 | 0936 | |
| 82 | 0944 | 0952 | 0960 | 0968 | 0976 | 0984 | 0992 | 1000 | 1008 | 1016 | 1 0.8 |
| 83 | 1024 | 1032 | 1041 | 1049 | 1057 | 1065 | 1073 | 1081 | 1089 | 1097 | 2 1.6 |
| 84 | 1105 | 1113 | 1121 | 1129 | 1137 | 1145 | 1153 | 1162 | 1170 | 1178 | 3 2.4 |
| 85 | 73 1186 | 1194 | 1202 | 1210 | 1218 | 1226 | 1234 | 1242 | 1250 | 1258 | 4 3.2 |
| 86 | 1266 | 1274 | 1282 | 1291 | 1299 | 1307 | 1315 | 1323 | 1331 | 1339 | 5 4.0 |
| 87 | 1347 | 1355 | 1363 | 1371 | 1379 | 1387 | 1395 | 1403 | 1411 | 1420 | 6 4.8 |
| 88 | 1428 | 1436 | 1444 | 1452 | 1460 | 1468 | 1476 | 1484 | 1492 | 1500 | 7 5.6 |
| 89 | 1508 | 1516 | 1524 | 1532 | 1540 | 1548 | 1557 | 1565 | 1573 | 1581 | 8 6.4 |
| 5390 | 73 1589 | 1597 | 1605 | 1613 | 1621 | 1629 | 1637 | 1645 | 1653 | 1661 | 9 7.2 |
| 91 | 1669 | 1677 | 1685 | 1693 | 1702 | 1710 | 1718 | 1726 | 1734 | 1742 | |
| 92 | 1750 | 1758 | 1766 | 1774 | 1782 | 1790 | 1798 | 1806 | 1814 | 1822 | |
| 93 | 1830 | 1838 | 1847 | 1855 | 1863 | 1871 | 1879 | 1887 | 1895 | 1903 | |
| 94 | 1911 | 1919 | 1927 | 1935 | 1943 | 1951 | 1959 | 1967 | 1975 | 1983 | |
| 95 | 73 1991 | 1999 | 2008 | 2016 | 2024 | 2032 | 2040 | 2048 | 2056 | 2064 | |
| 96 | 2072 | 2080 | 2088 | 2096 | 2104 | 2112 | 2120 | 2128 | 2136 | 2144 | |
| 97 | 2152 | 2160 | 2169 | 2177 | 2185 | 2193 | 2201 | 2209 | 2217 | 2225 | |
| 98 | 2233 | 2241 | 2249 | 2257 | 2265 | 2273 | 2281 | 2289 | 2297 | 2305 | |
| 99 | 2313 | 2321 | 2329 | 2337 | 2346 | 2354 | 2362 | 2370 | 2378 | 2386 | |
| 5400 | 73 2394 | 2402 | 2410 | 2418 | 2426 | 2434 | 2442 | 2450 | 2458 | 2466 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 53500 | = 14° 51' 40" | | | | 53500 | = 1° 29' 10" | | | S. 4.685 | 526 | T. 672 |
| 53600 | = 14 53 20 | | | | 53600 | = 1 29 20 | | | | 526 | 673 |
| 53700 | = 14 55 0 | | | | 53700 | = 1 29 30 | | | | 526 | 673 |
| 53800 | = 14 56 40 | | | | 53800 | = 1 29 40 | | | | 526 | 673 |
| 53900 | = 14 58 20 | | | | 53900 | = 1 29 50 | | | | 525 | 674 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-------------|------|------|-------------------|------|------|--------------|------|------|--------|-------|
| 5400 | 73 2394 | 2402 | 2410 | 2418 | 2426 | 2434 | 2442 | 2450 | 2458 | 2466 | |
| 01 | 2474 | 2482 | 2490 | 2498 | 2506 | 2514 | 2522 | 2530 | 2539 | 2547 | |
| 02 | 2555 | 2563 | 2571 | 2579 | 2587 | 2595 | 2603 | 2611 | 2619 | 2627 | |
| 03 | 2635 | 2643 | 2651 | 2659 | 2667 | 2675 | 2683 | 2691 | 2699 | 2707 | |
| 04 | 2715 | 2723 | 2731 | 2739 | 2747 | 2756 | 2764 | 2772 | 2780 | 2788 | |
| 05 | 73 2796 | 2804 | 2812 | 2820 | 2828 | 2836 | 2844 | 2852 | 2860 | 2868 | |
| 06 | 2876 | 2884 | 2892 | 2900 | 2908 | 2916 | 2924 | 2932 | 2940 | 2948 | |
| 07 | 2956 | 2964 | 2972 | 2980 | 2988 | 2997 | 3005 | 3013 | 3021 | 3029 | |
| 08 | 3037 | 3045 | 3053 | 3061 | 3069 | 3077 | 3085 | 3093 | 3101 | 3109 | |
| 09 | 3117 | 3125 | 3133 | 3141 | 3149 | 3157 | 3165 | 3173 | 3181 | 3189 | |
| 5410 | 73 3197 | 3205 | 3213 | 3221 | 3229 | 3237 | 3245 | 3253 | 3261 | 3270 | |
| 11 | 3278 | 3286 | 3294 | 3302 | 3310 | 3318 | 3326 | 3334 | 3342 | 3350 | 9 |
| 12 | 3358 | 3366 | 3374 | 3382 | 3390 | 3398 | 3406 | 3414 | 3422 | 3430 | 1 0.9 |
| 13 | 3438 | 3446 | 3454 | 3462 | 3470 | 3478 | 3486 | 3494 | 3502 | 3510 | 2 1.8 |
| 14 | 3518 | 3526 | 3534 | 3542 | 3550 | 3558 | 3566 | 3574 | 3582 | 3590 | 3 2.7 |
| 15 | 73 3598 | 3606 | 3615 | 3623 | 3631 | 3639 | 3647 | 3655 | 3663 | 3671 | 4 3.6 |
| 16 | 3679 | 3687 | 3695 | 3703 | 3711 | 3719 | 3727 | 3735 | 3743 | 3751 | 5 4.5 |
| 17 | 3759 | 3767 | 3775 | 3783 | 3791 | 3799 | 3807 | 3815 | 3823 | 3831 | 6 5.4 |
| 18 | 3839 | 3847 | 3855 | 3863 | 3871 | 3879 | 3887 | 3895 | 3903 | 3911 | 7 6.3 |
| 19 | 3919 | 3927 | 3935 | 3943 | 3951 | 3959 | 3967 | 3975 | 3983 | 3991 | 8 7.2 |
| 5420 | 73 3999 | 4007 | 4015 | 4023 | 4031 | 4039 | 4047 | 4055 | 4063 | 4071 | 9 8.1 |
| 21 | 4079 | 4087 | 4095 | 4103 | 4111 | 4119 | 4127 | 4135 | 4143 | 4152 | |
| 22 | 4160 | 4168 | 4176 | 4184 | 4192 | 4200 | 4208 | 4216 | 4224 | 4232 | |
| 23 | 4240 | 4248 | 4256 | 4264 | 4272 | 4280 | 4288 | 4296 | 4304 | 4312 | |
| 24 | 4320 | 4328 | 4336 | 4344 | 4352 | 4360 | 4368 | 4376 | 4384 | 4392 | |
| 25 | 73 4400 | 4408 | 4416 | 4424 | 4432 | 4440 | 4448 | 4456 | 4464 | 4472 | |
| 26 | 4480 | 4488 | 4496 | 4504 | 4512 | 4520 | 4528 | 4536 | 4544 | 4552 | |
| 27 | 4560 | 4568 | 4576 | 4584 | 4592 | 4600 | 4608 | 4616 | 4624 | 4632 | |
| 28 | 4640 | 4648 | 4656 | 4664 | 4672 | 4680 | 4688 | 4696 | 4704 | 4712 | |
| 29 | 4720 | 4728 | 4736 | 4744 | 4752 | 4760 | 4768 | 4776 | 4784 | 4792 | |
| 5430 | 73 4800 | 4808 | 4816 | 4824 | 4832 | 4840 | 4848 | 4856 | 4864 | 4872 | |
| 31 | 4880 | 4888 | 4896 | 4904 | 4912 | 4920 | 4928 | 4936 | 4944 | 4952 | |
| 32 | 4960 | 4968 | 4976 | 4984 | 4992 | 5000 | 5008 | 5016 | 5024 | 5032 | 8 |
| 33 | 5040 | 5048 | 5056 | 5064 | 5072 | 5080 | 5088 | 5096 | 5104 | 5112 | 1 0.8 |
| 34 | 5120 | 5128 | 5136 | 5144 | 5152 | 5160 | 5168 | 5176 | 5184 | 5192 | 2 1.6 |
| 35 | 73 5200 | 5208 | 5216 | 5224 | 5232 | 5240 | 5247 | 5255 | 5263 | 5271 | 3 2.4 |
| 36 | 5279 | 5287 | 5295 | 5303 | 5311 | 5319 | 5327 | 5335 | 5343 | 5351 | 4 3.2 |
| 37 | 5359 | 5367 | 5375 | 5383 | 5391 | 5399 | 5407 | 5415 | 5423 | 5431 | 5 4.0 |
| 38 | 5439 | 5447 | 5455 | 5463 | 5471 | 5479 | 5487 | 5495 | 5503 | 5511 | 6 4.8 |
| 39 | 5519 | 5527 | 5535 | 5543 | 5551 | 5559 | 5567 | 5575 | 5583 | 5591 | 7 5.6 |
| 5440 | 73 5599 | 5607 | 5615 | 5623 | 5631 | 5639 | 5647 | 5655 | 5663 | 5671 | 8 6.4 |
| 41 | 5679 | 5687 | 5695 | 5703 | 5711 | 5719 | 5727 | 5735 | 5743 | 5751 | 9 7.2 |
| 42 | 5759 | 5767 | 5774 | 5782 | 5790 | 5798 | 5806 | 5814 | 5822 | 5830 | |
| 43 | 5838 | 5846 | 5854 | 5862 | 5870 | 5878 | 5886 | 5894 | 5902 | 5910 | |
| 44 | 5918 | 5926 | 5934 | 5942 | 5950 | 5958 | 5966 | 5974 | 5982 | 5990 | |
| 45 | 73 5998 | 6006 | 6014 | 6022 | 6030 | 6038 | 6046 | 6054 | 6062 | 6070 | |
| 46 | 6078 | 6086 | 6094 | 6102 | 6110 | 6118 | 6125 | 6133 | 6141 | 6149 | |
| 47 | 6157 | 6165 | 6173 | 6181 | 6189 | 6197 | 6205 | 6213 | 6221 | 6229 | |
| 48 | 6237 | 6245 | 6253 | 6261 | 6269 | 6277 | 6285 | 6293 | 6301 | 6309 | |
| 49 | 6317 | 6325 | 6333 | 6341 | 6349 | 6357 | 6365 | 6373 | 6381 | 6389 | |
| 5450 | 73 6397 | 6404 | 6412 | 6420 | 6428 | 6436 | 6444 | 6452 | 6460 | 6468 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 5400" | = 15° 0' 0" | | | 5400" = 1° 30' 0" | | | S. 4.685 525 | | | T. 674 | |
| 54100 | = 15 1 40 | | | 5410 = 1 30 10 | | | 525 | | | 674 | |
| 54200 | = 15 3 20 | | | 5420 = 1 30 20 | | | 525 | | | 675 | |
| 54300 | = 15 5 0 | | | 5430 = 1 30 30 | | | 525 | | | 675 | |
| 54400 | = 15 6 40 | | | 5440 = 1 30 40 | | | 525 | | | 676 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|---------------|-------|----------|-------|--------|-------|
| 5450 | 73 6397 | 6404 | 6412 | 6420 | 6428 | 6436 | 6444 | 6452 | 6460 | 6468 | |
| 51 | 6476 | 6484 | 6492 | 6500 | 6508 | 6516 | 6524 | 6532 | 6540 | 6548 | |
| 52 | 6556 | 6564 | 6572 | 6580 | 6588 | 6596 | 6604 | 6612 | 6620 | 6628 | |
| 53 | 6635 | 6643 | 6651 | 6659 | 6667 | 6675 | 6683 | 6691 | 6699 | 6707 | |
| 54 | 6715 | 6723 | 6731 | 6739 | 6747 | 6755 | 6763 | 6771 | 6779 | 6787 | |
| 55 | 73 6795 | 6803 | 6811 | 6819 | 6827 | 6835 | 6843 | 6850 | 6858 | 6866 | |
| 56 | 6874 | 6882 | 6890 | 6898 | 6906 | 6914 | 6922 | 6930 | 6938 | 6946 | |
| 57 | 6954 | 6962 | 6970 | 6978 | 6986 | 6994 | 7002 | 7010 | 7018 | 7026 | |
| 58 | 7034 | 7041 | 7049 | 7057 | 7065 | 7073 | 7081 | 7089 | 7097 | 7105 | |
| 59 | 7113 | 7121 | 7129 | 7137 | 7145 | 7153 | 7161 | 7169 | 7177 | 7185 | |
| 5460 | 73 7193 | 7201 | 7209 | 7217 | 7224 | 7232 | 7240 | 7248 | 7256 | 7264 | |
| 61 | 7272 | 7280 | 7288 | 7296 | 7304 | 7312 | 7320 | 7328 | 7336 | 7344 | 8 |
| 62 | 7352 | 7360 | 7368 | 7376 | 7383 | 7391 | 7399 | 7407 | 7415 | 7423 | 1 0.8 |
| 63 | 7431 | 7439 | 7447 | 7455 | 7463 | 7471 | 7479 | 7487 | 7495 | 7503 | 2 1.6 |
| 64 | 7511 | 7519 | 7527 | 7535 | 7542 | 7550 | 7558 | 7566 | 7574 | 7582 | 3 2.4 |
| 65 | 73 7590 | 7598 | 7606 | 7614 | 7622 | 7630 | 7638 | 7646 | 7654 | 7662 | 4 3.2 |
| 66 | 7670 | 7678 | 7686 | 7693 | 7701 | 7709 | 7717 | 7725 | 7733 | 7741 | 5 4.0 |
| 67 | 7749 | 7757 | 7765 | 7773 | 7781 | 7789 | 7797 | 7805 | 7813 | 7821 | 6 4.8 |
| 68 | 7829 | 7836 | 7844 | 7852 | 7860 | 7868 | 7876 | 7884 | 7892 | 7900 | 7 5.6 |
| 69 | 7908 | 7916 | 7924 | 7932 | 7940 | 7948 | 7956 | 7964 | 7971 | 7979 | 8 6.4 |
| 5470 | 73 7987 | 7995 | 8003 | 8011 | 8019 | 8027 | 8035 | 8043 | 8051 | 8059 | 9 7.2 |
| 71 | 8067 | 8075 | 8083 | 8091 | 8098 | 8106 | 8114 | 8122 | 8130 | 8138 | |
| 72 | 8146 | 8154 | 8162 | 8170 | 8178 | 8186 | 8194 | 8202 | 8210 | 8218 | |
| 73 | 8225 | 8233 | 8241 | 8249 | 8257 | 8265 | 8273 | 8281 | 8289 | 8297 | |
| 74 | 8305 | 8313 | 8321 | 8329 | 8337 | 8344 | 8352 | 8360 | 8368 | 8376 | |
| 75 | 73 8384 | 8392 | 8400 | 8408 | 8416 | 8424 | 8432 | 8440 | 8448 | 8456 | |
| 76 | 8463 | 8471 | 8479 | 8487 | 8495 | 8503 | 8511 | 8519 | 8527 | 8535 | |
| 77 | 8543 | 8551 | 8559 | 8567 | 8574 | 8582 | 8590 | 8598 | 8606 | 8614 | |
| 78 | 8622 | 8630 | 8638 | 8646 | 8654 | 8662 | 8670 | 8678 | 8685 | 8693 | |
| 79 | 8701 | 8709 | 8717 | 8725 | 8733 | 8741 | 8749 | 8757 | 8765 | 8773 | |
| 5480 | 73 8781 | 8788 | 8796 | 8804 | 8812 | 8820 | 8828 | 8836 | 8844 | 8852 | |
| 81 | 8860 | 8868 | 8876 | 8884 | 8891 | 8899 | 8907 | 8915 | 8923 | 8931 | 7 |
| 82 | 8939 | 8947 | 8955 | 8963 | 8971 | 8979 | 8987 | 8994 | 9002 | 9010 | 1 0.7 |
| 83 | 9028 | 9026 | 9034 | 9042 | 9050 | 9058 | 9066 | 9074 | 9082 | 9090 | 2 1.4 |
| 84 | 9097 | 9105 | 9113 | 9121 | 9129 | 9137 | 9145 | 9153 | 9161 | 9169 | 3 2.1 |
| 85 | 73 9177 | 9185 | 9192 | 9200 | 9208 | 9216 | 9224 | 9232 | 9240 | 9248 | 4 2.8 |
| 86 | 9256 | 9264 | 9272 | 9280 | 9288 | 9295 | 9303 | 9311 | 9319 | 9327 | 5 3.5 |
| 87 | 9335 | 9343 | 9351 | 9359 | 9367 | 9375 | 9382 | 9390 | 9398 | 9406 | 6 4.2 |
| 88 | 9414 | 9422 | 9430 | 9438 | 9446 | 9454 | 9462 | 9469 | 9477 | 9485 | 7 4.9 |
| 89 | 9493 | 9501 | 9509 | 9517 | 9525 | 9533 | 9541 | 9549 | 9557 | 9565 | 8 5.6 |
| 5490 | 73 9572 | 9580 | 9588 | 9596 | 9604 | 9612 | 9620 | 9628 | 9636 | 9644 | 9 6.3 |
| 91 | 9651 | 9659 | 9667 | 9675 | 9683 | 9691 | 9699 | 9707 | 9715 | 9723 | |
| 92 | 9731 | 9738 | 9746 | 9754 | 9762 | 9770 | 9778 | 9786 | 9794 | 9802 | |
| 93 | 9810 | 9818 | 9825 | 9833 | 9841 | 9849 | 9857 | 9865 | 9873 | 9881 | |
| 94 | 9889 | 9897 | 9904 | 9912 | 9920 | 9928 | 9936 | 9944 | 9952 | 9960 | |
| 95 | 73 9968 | 9976 | 9984 | 9991 | 10000 | 10008 | 10015 | 10023 | 10031 | 10039 | |
| 96 | 74 0047 | 0055 | 0063 | 0070 | 0078 | 0086 | 0094 | 0102 | 0110 | 0118 | |
| 97 | 0126 | 0134 | 0142 | 0149 | 0157 | 0165 | 0173 | 0181 | 0189 | 0197 | |
| 98 | 0205 | 0213 | 0221 | 0228 | 0236 | 0244 | 0252 | 0260 | 0268 | 0276 | |
| 99 | 0284 | 0292 | 0300 | 0307 | 0315 | 0323 | 0331 | 0339 | 0347 | 0355 | |
| 5500 | 74 0363 | 0371 | 0378 | 0386 | 0394 | 0402 | 0410 | 0418 | 0426 | 0434 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 54500 | = 15° 8' 20" | | | | 54500 | = 15° 30' 50" | | S. 4,685 | 524 | T. 676 | |
| 54600 | = 15 10 0 | | | | 54600 | = 1 31 0 | | | 524 | 676 | |
| 54700 | = 15 11 40 | | | | 54700 | = 1 31 10 | | | 524 | 677 | |
| 54800 | = 15 13 20 | | | | 54800 | = 1 31 20 | | | 524 | 677 | |
| 54900 | = 15 15 0 | | | | 54900 | = 1 31 30 | | | 524 | 677 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|---------------------|------|----------|------|--------|------|-------|
| 5500 | 74 0363 | 0371 | 0378 | 0386 | 0394 | 0402 | 0410 | 0418 | 0426 | 0434 | |
| 01 | 0442 | 0450 | 0457 | 0465 | 0473 | 0481 | 0489 | 0497 | 0505 | 0513 | |
| 02 | 0521 | 0528 | 0536 | 0544 | 0552 | 0560 | 0567 | 0576 | 0584 | 0592 | |
| 03 | 0600 | 0607 | 0615 | 0623 | 0631 | 0639 | 0647 | 0655 | 0663 | 0671 | |
| 04 | 0678 | 0686 | 0694 | 0702 | 0710 | 0718 | 0726 | 0734 | 0742 | 0749 | |
| 05 | 74 0757 | 0765 | 0773 | 0781 | 0789 | 0797 | 0805 | 0813 | 0820 | 0828 | |
| 06 | 0836 | 0844 | 0852 | 0860 | 0868 | 0876 | 0884 | 0891 | 0899 | 0907 | |
| 07 | 0915 | 0923 | 0931 | 0939 | 0947 | 0955 | 0962 | 0970 | 0978 | 0986 | |
| 08 | 0994 | 1002 | 1010 | 1018 | 1025 | 1033 | 1041 | 1049 | 1057 | 1065 | |
| 09 | 1073 | 1081 | 1089 | 1096 | 1104 | 1112 | 1120 | 1128 | 1136 | 1144 | |
| 5510 | 74 1152 | 1159 | 1167 | 1175 | 1183 | 1191 | 1199 | 1207 | 1215 | 1223 | |
| 11 | 1230 | 1238 | 1246 | 1254 | 1262 | 1270 | 1278 | 1286 | 1293 | 1301 | 8 |
| 12 | 1309 | 1317 | 1325 | 1333 | 1341 | 1349 | 1356 | 1364 | 1372 | 1380 | 1 0.8 |
| 13 | 1388 | 1396 | 1404 | 1412 | 1420 | 1427 | 1435 | 1443 | 1451 | 1459 | 2 1.6 |
| 14 | 1467 | 1475 | 1483 | 1490 | 1498 | 1506 | 1514 | 1522 | 1530 | 1538 | 3 2.4 |
| 15 | 74 1546 | 1553 | 1561 | 1569 | 1577 | 1585 | 1593 | 1601 | 1609 | 1616 | 4 3.2 |
| 16 | 1624 | 1632 | 1640 | 1648 | 1656 | 1664 | 1671 | 1679 | 1687 | 1695 | 5 4.0 |
| 17 | 1703 | 1711 | 1719 | 1727 | 1734 | 1742 | 1750 | 1758 | 1766 | 1774 | 6 4.8 |
| 18 | 1782 | 1790 | 1797 | 1805 | 1813 | 1821 | 1829 | 1837 | 1845 | 1853 | 7 5.6 |
| 19 | 1860 | 1868 | 1876 | 1884 | 1892 | 1900 | 1908 | 1915 | 1923 | 1931 | 8 6.4 |
| 5520 | 74 1939 | 1947 | 1955 | 1963 | 1971 | 1978 | 1986 | 1994 | 2002 | 2010 | 9 7.2 |
| 21 | 2018 | 2026 | 2033 | 2041 | 2049 | 2057 | 2065 | 2073 | 2081 | 2089 | |
| 22 | 2096 | 2104 | 2112 | 2120 | 2128 | 2136 | 2144 | 2151 | 2159 | 2167 | |
| 23 | 2175 | 2183 | 2191 | 2199 | 2206 | 2214 | 2222 | 2230 | 2238 | 2246 | |
| 24 | 2254 | 2262 | 2269 | 2277 | 2285 | 2293 | 2301 | 2309 | 2317 | 2324 | |
| 25 | 74 2332 | 2340 | 2348 | 2356 | 2364 | 2372 | 2379 | 2387 | 2395 | 2403 | |
| 26 | 2411 | 2419 | 2427 | 2434 | 2442 | 2450 | 2458 | 2466 | 2474 | 2482 | |
| 27 | 2489 | 2497 | 2505 | 2513 | 2521 | 2529 | 2537 | 2544 | 2552 | 2560 | |
| 28 | 2568 | 2576 | 2584 | 2592 | 2599 | 2607 | 2615 | 2623 | 2631 | 2639 | |
| 29 | 2647 | 2654 | 2662 | 2670 | 2678 | 2686 | 2694 | 2702 | 2709 | 2717 | |
| 5530 | 74 2725 | 2733 | 2741 | 2749 | 2757 | 2764 | 2772 | 2780 | 2788 | 2796 | |
| 31 | 2804 | 2812 | 2819 | 2827 | 2835 | 2843 | 2851 | 2859 | 2866 | 2874 | 7 |
| 32 | 2882 | 2890 | 2898 | 2906 | 2914 | 2921 | 2929 | 2937 | 2945 | 2953 | 1 0.7 |
| 33 | 2961 | 2969 | 2976 | 2984 | 2992 | 3000 | 3008 | 3016 | 3025 | 3031 | 2 1.4 |
| 34 | 3039 | 3047 | 3055 | 3063 | 3071 | 3078 | 3086 | 3094 | 3102 | 3110 | 3 2.1 |
| 35 | 74 3118 | 3125 | 3133 | 3141 | 3149 | 3157 | 3165 | 3173 | 3180 | 3188 | 4 2.8 |
| 36 | 3196 | 3204 | 3212 | 3220 | 3227 | 3235 | 3243 | 3251 | 3259 | 3267 | 5 3.5 |
| 37 | 3275 | 3282 | 3290 | 3298 | 3306 | 3314 | 3322 | 3329 | 3337 | 3345 | 6 4.2 |
| 38 | 3353 | 3361 | 3369 | 3376 | 3384 | 3392 | 3400 | 3408 | 3416 | 3424 | 7 4.9 |
| 39 | 3431 | 3439 | 3447 | 3455 | 3463 | 3471 | 3478 | 3486 | 3494 | 3502 | 8 5.6 |
| 5540 | 74 3510 | 3518 | 3525 | 3533 | 3541 | 3549 | 3557 | 3565 | 3572 | 3580 | 9 6.3 |
| 41 | 3588 | 3596 | 3604 | 3612 | 3620 | 3627 | 3635 | 3643 | 3651 | 3659 | |
| 42 | 3667 | 3674 | 3682 | 3690 | 3698 | 3706 | 3714 | 3721 | 3729 | 3737 | |
| 43 | 3745 | 3753 | 3761 | 3768 | 3776 | 3784 | 3792 | 3800 | 3808 | 3815 | |
| 44 | 3823 | 3831 | 3839 | 3847 | 3855 | 3862 | 3870 | 3878 | 3886 | 3894 | |
| 45 | 74 3902 | 3909 | 3917 | 3925 | 3933 | 3941 | 3949 | 3956 | 3964 | 3972 | |
| 46 | 3980 | 3988 | 3996 | 4003 | 4011 | 4019 | 4027 | 4035 | 4043 | 4050 | |
| 47 | 4058 | 4066 | 4074 | 4082 | 4089 | 4097 | 4105 | 4113 | 4121 | 4129 | |
| 48 | 4136 | 4144 | 4152 | 4160 | 4168 | 4176 | 4183 | 4191 | 4199 | 4207 | |
| 49 | 4215 | 4223 | 4230 | 4238 | 4246 | 4254 | 4262 | 4270 | 4277 | 4285 | |
| 5550 | 74 4293 | 4301 | 4309 | 4316 | 4324 | 4332 | 4340 | 4348 | 4356 | 4363 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 55000" = 15° 16' 40" | | | | 55000" = 1° 31' 40" | | S. 4,685 | 523 | T. 678 | | |
| | 55100" = 15 18 20 | | | | 55100" = 1 31 50 | | | 523 | 678 | | |
| | 55200" = 15 20 0 | | | | 55200" = 1 32 0 | | | 523 | 679 | | |
| | 55300" = 15 21 40 | | | | 55300" = 1 32 10 | | | 523 | 679 | | |
| | 55400" = 15 23 20 | | | | 55400" = 1 32 20 | | | 523 | 679 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|------|------|------|------|------|------|---------------------|
| 5550 | 74 4293 | 4301 | 4309 | 4316 | 4324 | 4332 | 4340 | 4348 | 4356 | 4363 | |
| 51 | 4371 | 4379 | 4387 | 4395 | 4403 | 4410 | 4418 | 4426 | 4434 | 4442 | |
| 52 | 4449 | 4457 | 4465 | 4473 | 4481 | 4489 | 4496 | 4504 | 4512 | 4520 | |
| 53 | 4528 | 4535 | 4543 | 4551 | 4559 | 4567 | 4575 | 4582 | 4590 | 4598 | |
| 54 | 4606 | 4614 | 4622 | 4629 | 4637 | 4645 | 4653 | 4661 | 4668 | 4676 | |
| 55 | 74 4684 | 4692 | 4700 | 4708 | 4715 | 4723 | 4731 | 4739 | 4747 | 4754 | |
| 56 | 4762 | 4770 | 4778 | 4786 | 4794 | 4801 | 4809 | 4817 | 4825 | 4833 | |
| 57 | 4840 | 4848 | 4856 | 4864 | 4872 | 4879 | 4887 | 4895 | 4903 | 4911 | |
| 58 | 4919 | 4926 | 4934 | 4942 | 4950 | 4958 | 4965 | 4973 | 4981 | 4989 | |
| 59 | 4997 | 5004 | 5012 | 5020 | 5028 | 5036 | 5044 | 5051 | 5059 | 5067 | |
| 5560 | 74 5075 | 5083 | 5090 | 5098 | 5106 | 5114 | 5122 | 5129 | 5137 | 5145 | |
| 61 | 5153 | 5161 | 5169 | 5176 | 5184 | 5192 | 5200 | 5208 | 5215 | 5223 | 8 |
| 62 | 5231 | 5239 | 5247 | 5254 | 5262 | 5270 | 5278 | 5286 | 5293 | 5301 | 1 0.8 |
| 63 | 5309 | 5317 | 5325 | 5332 | 5340 | 5348 | 5356 | 5364 | 5372 | 5379 | 2 1.6 |
| 64 | 5387 | 5395 | 5403 | 5411 | 5418 | 5426 | 5434 | 5442 | 5450 | 5457 | 3 2.4 |
| 65 | 74 5465 | 5473 | 5481 | 5489 | 5496 | 5504 | 5512 | 5520 | 5528 | 5535 | 4 3.2 |
| 66 | 5543 | 5551 | 5559 | 5567 | 5574 | 5582 | 5590 | 5598 | 5606 | 5613 | 5 4.0 |
| 67 | 5621 | 5629 | 5637 | 5645 | 5652 | 5660 | 5668 | 5676 | 5684 | 5691 | 6 4.8 |
| 68 | 5699 | 5707 | 5715 | 5723 | 5730 | 5738 | 5746 | 5754 | 5762 | 5769 | 7 5.6 |
| 69 | 5777 | 5785 | 5793 | 5801 | 5808 | 5816 | 5824 | 5832 | 5840 | 5847 | 8 6.4 |
| 5570 | 74 5855 | 5863 | 5871 | 5879 | 5886 | 5894 | 5902 | 5910 | 5918 | 5925 | 9 7.2 |
| 71 | 5933 | 5941 | 5949 | 5957 | 5964 | 5972 | 5980 | 5988 | 5996 | 6003 | |
| 72 | 6011 | 6019 | 6027 | 6034 | 6042 | 6050 | 6058 | 6066 | 6073 | 6081 | |
| 73 | 6089 | 6097 | 6105 | 6112 | 6120 | 6128 | 6136 | 6144 | 6151 | 6159 | |
| 74 | 6167 | 6175 | 6183 | 6190 | 6198 | 6206 | 6214 | 6222 | 6229 | 6237 | |
| 75 | 74 6245 | 6253 | 6260 | 6268 | 6276 | 6284 | 6292 | 6299 | 6307 | 6315 | |
| 76 | 6323 | 6331 | 6338 | 6346 | 6354 | 6362 | 6369 | 6377 | 6385 | 6393 | |
| 77 | 6401 | 6408 | 6416 | 6424 | 6432 | 6440 | 6447 | 6455 | 6463 | 6471 | |
| 78 | 6479 | 6486 | 6494 | 6502 | 6510 | 6517 | 6525 | 6533 | 6541 | 6549 | |
| 79 | 6556 | 6564 | 6572 | 6580 | 6587 | 6595 | 6603 | 6611 | 6619 | 6626 | |
| 5580 | 74 6634 | 6642 | 6650 | 6658 | 6665 | 6673 | 6681 | 6689 | 6696 | 6704 | |
| 81 | 6712 | 6720 | 6728 | 6735 | 6743 | 6751 | 6759 | 6766 | 6774 | 6782 | 7 |
| 82 | 6790 | 6798 | 6805 | 6813 | 6821 | 6829 | 6837 | 6844 | 6852 | 6860 | 1 0.7 |
| 83 | 6868 | 6875 | 6883 | 6891 | 6899 | 6907 | 6914 | 6922 | 6930 | 6938 | 2 1.4 |
| 84 | 6945 | 6953 | 6961 | 6969 | 6977 | 6984 | 6992 | 7000 | 7008 | 7015 | 3 2.1 |
| 85 | 74 7023 | 7031 | 7039 | 7047 | 7054 | 7062 | 7070 | 7078 | 7085 | 7093 | 4 2.8 |
| 86 | 7101 | 7109 | 7116 | 7124 | 7132 | 7140 | 7148 | 7155 | 7163 | 7171 | 5 3.5 |
| 87 | 7179 | 7186 | 7194 | 7202 | 7210 | 7218 | 7225 | 7233 | 7241 | 7249 | 6 4.2 |
| 88 | 7256 | 7264 | 7272 | 7280 | 7287 | 7295 | 7303 | 7311 | 7319 | 7326 | 7 4.9 |
| 89 | 7334 | 7342 | 7350 | 7357 | 7365 | 7373 | 7381 | 7388 | 7396 | 7404 | 8 5.6 |
| 5590 | 74 7412 | 7420 | 7427 | 7435 | 7443 | 7451 | 7458 | 7466 | 7474 | 7482 | 9 6.3 |
| 91 | 7489 | 7497 | 7505 | 7513 | 7521 | 7528 | 7536 | 7544 | 7552 | 7559 | |
| 92 | 7567 | 7575 | 7583 | 7590 | 7598 | 7606 | 7614 | 7622 | 7629 | 7637 | |
| 93 | 7645 | 7653 | 7660 | 7668 | 7676 | 7684 | 7691 | 7699 | 7707 | 7715 | |
| 94 | 7722 | 7730 | 7738 | 7746 | 7754 | 7761 | 7769 | 7777 | 7785 | 7792 | |
| 95 | 74 7800 | 7808 | 7816 | 7823 | 7831 | 7839 | 7847 | 7854 | 7862 | 7870 | |
| 96 | 7878 | 7885 | 7893 | 7901 | 7909 | 7917 | 7924 | 7932 | 7940 | 7948 | |
| 97 | 7955 | 7963 | 7971 | 7979 | 7986 | 7994 | 8002 | 8010 | 8017 | 8025 | |
| 98 | 8033 | 8041 | 8048 | 8056 | 8064 | 8072 | 8080 | 8088 | 8095 | 8103 | |
| 99 | 8110 | 8118 | 8126 | 8134 | 8141 | 8149 | 8157 | 8165 | 8173 | 8180 | |
| 5600 | 74 8188 | 8196 | 8204 | 8211 | 8219 | 8227 | 8235 | 8242 | 8250 | 8258 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 55500 | = 15° 25' 0" | | | | | | | | | | S. 4.685 522 T. 680 |
| 55600 | = 15 26 40 | | | | | | | | | | 522 680 |
| 55700 | = 15 28 20 | | | | | | | | | | 522 680 |
| 55800 | = 15 30 0 | | | | | | | | | | 522 681 |
| 55900 | = 15 31 40 | | | | | | | | | | 522 681 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|--------------------|------|------|----------|------|--------|-------|
| 5600 | 74 8188 | 8196 | 8204 | 8211 | 8219 | 8227 | 8235 | 8242 | 8250 | 8258 | |
| 01 | 8266 | 8273 | 8281 | 8289 | 8297 | 8304 | 8312 | 8320 | 8328 | 8335 | |
| 02 | 8343 | 8351 | 8359 | 8366 | 8374 | 8382 | 8390 | 8397 | 8405 | 8413 | |
| 03 | 8421 | 8428 | 8436 | 8444 | 8452 | 8459 | 8467 | 8475 | 8483 | 8490 | |
| 04 | 8498 | 8506 | 8514 | 8521 | 8529 | 8537 | 8545 | 8552 | 8560 | 8568 | |
| 05 | 74 8576 | 8583 | 8591 | 8599 | 8607 | 8614 | 8622 | 8630 | 8638 | 8645 | |
| 06 | 8653 | 8661 | 8669 | 8676 | 8684 | 8692 | 8700 | 8707 | 8715 | 8723 | |
| 07 | 8731 | 8738 | 8746 | 8754 | 8762 | 8769 | 8777 | 8785 | 8793 | 8800 | |
| 08 | 8808 | 8816 | 8823 | 8831 | 8839 | 8847 | 8854 | 8862 | 8870 | 8878 | |
| 09 | 8885 | 8893 | 8901 | 8909 | 8916 | 8924 | 8932 | 8940 | 8947 | 8955 | |
| 5610 | 74 8963 | 8971 | 8978 | 8986 | 8994 | 9002 | 9009 | 9017 | 9025 | 9033 | |
| 11 | 9040 | 9048 | 9056 | 9063 | 9071 | 9079 | 9087 | 9094 | 9102 | 9110 | 8 |
| 12 | 9118 | 9125 | 9133 | 9141 | 9149 | 9156 | 9164 | 9172 | 9180 | 9187 | 1 0.8 |
| 13 | 9195 | 9203 | 9211 | 9218 | 9226 | 9234 | 9241 | 9249 | 9257 | 9265 | 2 1.6 |
| 14 | 9272 | 9280 | 9288 | 9296 | 9303 | 9311 | 9319 | 9327 | 9334 | 9342 | 3 2.4 |
| 15 | 74 9350 | 9357 | 9365 | 9373 | 9381 | 9388 | 9396 | 9404 | 9412 | 9419 | 4 3.2 |
| 16 | 9427 | 9435 | 9443 | 9450 | 9458 | 9466 | 9473 | 9481 | 9489 | 9497 | 5 4.0 |
| 17 | 9504 | 9512 | 9520 | 9528 | 9535 | 9543 | 9551 | 9559 | 9566 | 9574 | 6 4.8 |
| 18 | 9582 | 9589 | 9597 | 9605 | 9613 | 9620 | 9628 | 9636 | 9644 | 9651 | 7 5.6 |
| 19 | 9659 | 9667 | 9674 | 9682 | 9690 | 9698 | 9705 | 9713 | 9721 | 9729 | 8 6.4 |
| 5620 | 74 9736 | 9744 | 9752 | 9759 | 9767 | 9775 | 9783 | 9790 | 9798 | 9806 | 9 7.2 |
| 21 | 9814 | 9821 | 9829 | 9837 | 9844 | 9852 | 9860 | 9868 | 9875 | 9883 | |
| 22 | 9891 | 9899 | 9906 | 9914 | 9922 | 9929 | 9937 | 9945 | 9953 | 9960 | |
| 23 | 9968 | 9976 | 9984 | 9991 | 9999 | 0007 | 0014 | 0022 | 0030 | 0038 | |
| 24 | 75 0045 | 0053 | 0061 | 0068 | 0076 | 0084 | 0092 | 0099 | 0107 | 0115 | |
| 25 | 75 0123 | 0130 | 0138 | 0146 | 0153 | 0161 | 0169 | 0177 | 0184 | 0192 | |
| 26 | 0200 | 0207 | 0215 | 0223 | 0231 | 0238 | 0246 | 0254 | 0261 | 0269 | |
| 27 | 0277 | 0285 | 0292 | 0300 | 0308 | 0316 | 0323 | 0331 | 0339 | 0346 | |
| 28 | 0354 | 0362 | 0370 | 0377 | 0385 | 0393 | 0400 | 0408 | 0416 | 0424 | |
| 29 | 0431 | 0439 | 0447 | 0454 | 0462 | 0470 | 0478 | 0485 | 0493 | 0501 | |
| 5630 | 75 0508 | 0516 | 0524 | 0532 | 0539 | 0547 | 0555 | 0562 | 0570 | 0578 | |
| 31 | 0586 | 0593 | 0601 | 0609 | 0616 | 0624 | 0632 | 0640 | 0647 | 0655 | |
| 32 | 0663 | 0670 | 0678 | 0686 | 0693 | 0701 | 0709 | 0717 | 0724 | 0732 | 1 0.7 |
| 33 | 0740 | 0747 | 0755 | 0763 | 0771 | 0778 | 0786 | 0794 | 0802 | 0809 | 2 1.4 |
| 34 | 0817 | 0825 | 0832 | 0840 | 0848 | 0855 | 0863 | 0871 | 0879 | 0886 | 3 2.1 |
| 35 | 75 0894 | 0902 | 0909 | 0917 | 0925 | 0932 | 0940 | 0948 | 0956 | 0963 | 4 2.8 |
| 36 | 0971 | 0979 | 0986 | 0994 | 1002 | 1010 | 1017 | 1025 | 1033 | 1040 | 5 3.5 |
| 37 | 1048 | 1056 | 1063 | 1071 | 1079 | 1087 | 1094 | 1102 | 1110 | 1117 | 6 4.2 |
| 38 | 1125 | 1133 | 1140 | 1148 | 1156 | 1164 | 1171 | 1179 | 1187 | 1194 | 7 4.9 |
| 39 | 1202 | 1210 | 1217 | 1225 | 1233 | 1241 | 1248 | 1256 | 1264 | 1271 | 8 5.6 |
| 5640 | 75 1279 | 1287 | 1295 | 1302 | 1310 | 1318 | 1325 | 1333 | 1341 | 1348 | 9 6.3 |
| 41 | 1356 | 1364 | 1371 | 1379 | 1387 | 1395 | 1402 | 1410 | 1418 | 1425 | |
| 42 | 1433 | 1441 | 1448 | 1456 | 1464 | 1472 | 1479 | 1487 | 1495 | 1502 | |
| 43 | 1510 | 1518 | 1525 | 1533 | 1541 | 1549 | 1556 | 1564 | 1572 | 1579 | |
| 44 | 1587 | 1595 | 1602 | 1610 | 1618 | 1625 | 1633 | 1641 | 1649 | 1656 | |
| 45 | 75 1664 | 1672 | 1679 | 1687 | 1695 | 1702 | 1710 | 1718 | 1725 | 1733 | |
| 46 | 1741 | 1749 | 1756 | 1764 | 1772 | 1779 | 1787 | 1795 | 1802 | 1810 | |
| 47 | 1818 | 1825 | 1833 | 1841 | 1849 | 1856 | 1864 | 1872 | 1879 | 1887 | |
| 48 | 1895 | 1902 | 1910 | 1918 | 1925 | 1933 | 1941 | 1949 | 1956 | 1964 | |
| 49 | 1972 | 1979 | 1987 | 1995 | 2002 | 2010 | 2018 | 2025 | 2033 | 2041 | |
| 5650 | 75 2048 | 2056 | 2064 | 2072 | 2079 | 2087 | 2095 | 2102 | 2110 | 2118 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 56000" = 15° 33' 20" | | | | 5600" = 1° 33' 20" | | | S. 4,685 | 522 | T. 682 | |
| | 56100 = 15 35 0 | | | | 5610 = 1 33 30 | | | | 521 | 682 | |
| | 56200 = 15 36 40 | | | | 5620 = 1 33 40 | | | | 521 | 682 | |
| | 56300 = 15 38 20 | | | | 5630 = 1 33 50 | | | | 521 | 683 | |
| | 56400 = 15 40 0 | | | | 5640 = 1 34 0 | | | | 521 | 683 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|---------------------|------|------|----------|------|--------|-------|
| 5650 | 75 2048 | 2056 | 2064 | 2072 | 2079 | 2087 | 2095 | 2102 | 2110 | 2118 | |
| 51 | 2125 | 2133 | 2141 | 2148 | 2156 | 2164 | 2171 | 2179 | 2187 | 2194 | |
| 52 | 2202 | 2210 | 2218 | 2225 | 2233 | 2241 | 2248 | 2256 | 2264 | 2271 | |
| 53 | 2279 | 2287 | 2294 | 2302 | 2310 | 2317 | 2325 | 2333 | 2340 | 2348 | |
| 54 | 2356 | 2363 | 2371 | 2379 | 2387 | 2394 | 2402 | 2410 | 2417 | 2425 | |
| 55 | 75 2433 | 2440 | 2448 | 2456 | 2463 | 2471 | 2479 | 2486 | 2494 | 2502 | |
| 56 | 2509 | 2517 | 2525 | 2532 | 2540 | 2548 | 2555 | 2563 | 2571 | 2579 | |
| 57 | 2586 | 2594 | 2602 | 2609 | 2617 | 2625 | 2632 | 2640 | 2648 | 2655 | |
| 58 | 2663 | 2671 | 2678 | 2686 | 2694 | 2701 | 2709 | 2717 | 2724 | 2732 | |
| 59 | 2740 | 2747 | 2755 | 2763 | 2770 | 2778 | 2786 | 2793 | 2801 | 2809 | |
| 5660 | 75 2816 | 2824 | 2832 | 2839 | 2847 | 2855 | 2862 | 2870 | 2878 | 2885 | |
| 61 | 2893 | 2901 | 2908 | 2916 | 2924 | 2932 | 2939 | 2947 | 2955 | 2962 | 8 |
| 62 | 2970 | 2978 | 2985 | 2993 | 3001 | 3008 | 3016 | 3024 | 3031 | 3039 | 1 0.8 |
| 63 | 3047 | 3054 | 3062 | 3070 | 3077 | 3085 | 3093 | 3100 | 3108 | 3116 | 2 1.6 |
| 64 | 3123 | 3131 | 3139 | 3146 | 3154 | 3162 | 3169 | 3177 | 3185 | 3192 | 3 2.4 |
| 65 | 75 3200 | 3208 | 3215 | 3223 | 3231 | 3238 | 3246 | 3254 | 3261 | 3269 | 4 3.2 |
| 66 | 3277 | 3284 | 3292 | 3300 | 3307 | 3315 | 3323 | 3330 | 3338 | 3346 | 5 4.0 |
| 67 | 3353 | 3361 | 3369 | 3376 | 3384 | 3392 | 3399 | 3407 | 3415 | 3422 | 6 4.8 |
| 68 | 3430 | 3438 | 3445 | 3453 | 3460 | 3468 | 3476 | 3483 | 3491 | 3499 | 7 5.6 |
| 69 | 3506 | 3514 | 3522 | 3529 | 3537 | 3545 | 3552 | 3560 | 3568 | 3575 | 8 6.4 |
| 5670 | 75 3583 | 3591 | 3598 | 3606 | 3614 | 3621 | 3629 | 3637 | 3644 | 3652 | 9 7.2 |
| 71 | 3660 | 3667 | 3675 | 3683 | 3690 | 3698 | 3706 | 3713 | 3721 | 3729 | |
| 72 | 3736 | 3744 | 3752 | 3759 | 3767 | 3775 | 3782 | 3790 | 3797 | 3805 | |
| 73 | 3813 | 3820 | 3828 | 3836 | 3843 | 3851 | 3859 | 3866 | 3874 | 3882 | |
| 74 | 3889 | 3897 | 3905 | 3912 | 3920 | 3928 | 3935 | 3943 | 3951 | 3958 | |
| 75 | 75 3966 | 3974 | 3981 | 3989 | 3996 | 4004 | 4012 | 4019 | 4027 | 4035 | |
| 76 | 4042 | 4050 | 4058 | 4065 | 4073 | 4081 | 4088 | 4096 | 4104 | 4111 | |
| 77 | 4119 | 4127 | 4134 | 4142 | 4149 | 4157 | 4165 | 4172 | 4180 | 4188 | |
| 78 | 4195 | 4203 | 4211 | 4218 | 4226 | 4234 | 4241 | 4249 | 4257 | 4264 | |
| 79 | 4272 | 4280 | 4287 | 4295 | 4302 | 4310 | 4318 | 4325 | 4333 | 4341 | |
| 5680 | 75 4348 | 4356 | 4364 | 4371 | 4379 | 4387 | 4394 | 4402 | 4409 | 4417 | |
| 81 | 4425 | 4432 | 4440 | 4448 | 4455 | 4463 | 4471 | 4478 | 4486 | 4494 | 7 |
| 82 | 4501 | 4509 | 4517 | 4524 | 4532 | 4539 | 4547 | 4555 | 4562 | 4570 | 1 0.7 |
| 83 | 4578 | 4585 | 4593 | 4601 | 4608 | 4616 | 4624 | 4631 | 4639 | 4646 | 2 1.4 |
| 84 | 4654 | 4662 | 4669 | 4677 | 4685 | 4692 | 4700 | 4708 | 4715 | 4723 | 3 2.1 |
| 85 | 75 4730 | 4738 | 4746 | 4753 | 4761 | 4769 | 4776 | 4784 | 4792 | 4799 | 4 2.8 |
| 86 | 4807 | 4814 | 4822 | 4830 | 4837 | 4845 | 4853 | 4860 | 4868 | 4876 | 5 3.5 |
| 87 | 4883 | 4891 | 4899 | 4906 | 4914 | 4921 | 4929 | 4937 | 4944 | 4952 | 6 4.2 |
| 88 | 4960 | 4967 | 4975 | 4982 | 4990 | 4997 | 5005 | 5013 | 5021 | 5028 | 7 4.9 |
| 89 | 5036 | 5044 | 5051 | 5059 | 5066 | 5074 | 5082 | 5089 | 5097 | 5105 | 8 5.6 |
| 5690 | 75 5112 | 5120 | 5128 | 5135 | 5143 | 5150 | 5158 | 5166 | 5173 | 5181 | 9 6.3 |
| 91 | 5189 | 5196 | 5204 | 5211 | 5219 | 5227 | 5234 | 5242 | 5250 | 5257 | |
| 92 | 5265 | 5273 | 5280 | 5288 | 5295 | 5303 | 5311 | 5318 | 5326 | 5334 | |
| 93 | 5341 | 5349 | 5356 | 5364 | 5372 | 5379 | 5387 | 5395 | 5402 | 5410 | |
| 94 | 5417 | 5425 | 5433 | 5440 | 5448 | 5456 | 5463 | 5471 | 5478 | 5486 | |
| 95 | 75 5494 | 5501 | 5509 | 5517 | 5524 | 5532 | 5539 | 5547 | 5555 | 5562 | |
| 96 | 5570 | 5578 | 5585 | 5593 | 5600 | 5608 | 5616 | 5623 | 5631 | 5639 | |
| 97 | 5646 | 5654 | 5661 | 5669 | 5677 | 5684 | 5692 | 5700 | 5707 | 5715 | |
| 98 | 5722 | 5730 | 5738 | 5745 | 5753 | 5761 | 5768 | 5776 | 5783 | 5791 | |
| 99 | 5799 | 5806 | 5814 | 5822 | 5829 | 5837 | 5844 | 5852 | 5860 | 5867 | |
| 5700 | 75 5875 | 5882 | 5890 | 5898 | 5905 | 5913 | 5921 | 5928 | 5936 | 5943 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 56500' | 15° 41' 40" | | | | 56500' = 1° 34' 10" | | | S. 4,685 | 521 | T. 684 | |
| 56600 | 15 43 20 | | | | 56600 = 1 34 20 | | | | 520 | 684 | |
| 56700 | 15 45 0 | | | | 56700 = 1 34 30 | | | | 520 | 684 | |
| 56800 | 15 46 40 | | | | 56800 = 1 34 40 | | | | 520 | 685 | |
| 56900 | 15 48 20 | | | | 56900 = 1 34 50 | | | | 520 | 685 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|-------------------|------|------|----------|------|--------|-------|
| 5700 | 75 5875 | 5882 | 5890 | 5898 | 5905 | 5913 | 5921 | 5928 | 5936 | 5943 | |
| 01 | 5951 | 5959 | 5966 | 5974 | 5982 | 5989 | 5997 | 6004 | 6012 | 6020 | |
| 02 | 6027 | 6035 | 6042 | 6050 | 6058 | 6065 | 6073 | 6081 | 6088 | 6096 | |
| 03 | 6103 | 6111 | 6119 | 6126 | 6134 | 6141 | 6149 | 6157 | 6164 | 6172 | |
| 04 | 6180 | 6187 | 6195 | 6202 | 6210 | 6218 | 6225 | 6233 | 6240 | 6248 | |
| 05 | 75 6256 | 6263 | 6271 | 6278 | 6286 | 6294 | 6301 | 6309 | 6317 | 6324 | |
| 06 | 6332 | 6339 | 6347 | 6355 | 6362 | 6370 | 6377 | 6385 | 6393 | 6400 | |
| 07 | 6408 | 6415 | 6423 | 6431 | 6438 | 6446 | 6454 | 6461 | 6469 | 6476 | |
| 08 | 6484 | 6492 | 6499 | 6507 | 6514 | 6522 | 6530 | 6537 | 6545 | 6552 | |
| 09 | 6560 | 6568 | 6575 | 6583 | 6590 | 6598 | 6606 | 6613 | 6621 | 6629 | |
| 5710 | 75 6636 | 6644 | 6651 | 6659 | 6667 | 6674 | 6682 | 6689 | 6697 | 6705 | |
| 11 | 6712 | 6720 | 6727 | 6735 | 6743 | 6750 | 6758 | 6765 | 6773 | 6781 | |
| 12 | 6788 | 6796 | 6803 | 6811 | 6819 | 6826 | 6834 | 6841 | 6849 | 6857 | 1 0.8 |
| 13 | 6864 | 6872 | 6879 | 6887 | 6895 | 6902 | 6910 | 6917 | 6925 | 6933 | 2 1.6 |
| 14 | 6940 | 6948 | 6955 | 6963 | 6971 | 6978 | 6986 | 6993 | 7001 | 7009 | 3 2.4 |
| 15 | 75 7016 | 7024 | 7031 | 7039 | 7047 | 7054 | 7062 | 7069 | 7077 | 7085 | 4 3.2 |
| 16 | 7092 | 7100 | 7107 | 7115 | 7123 | 7130 | 7138 | 7145 | 7153 | 7161 | 5 4.0 |
| 17 | 7168 | 7176 | 7183 | 7191 | 7199 | 7206 | 7214 | 7221 | 7229 | 7237 | 6 4.8 |
| 18 | 7244 | 7252 | 7259 | 7267 | 7275 | 7282 | 7290 | 7297 | 7305 | 7313 | 7 5.6 |
| 19 | 7320 | 7328 | 7335 | 7343 | 7350 | 7358 | 7366 | 7373 | 7381 | 7388 | 8 6.4 |
| 5720 | 75 7396 | 7404 | 7411 | 7419 | 7426 | 7434 | 7442 | 7449 | 7457 | 7464 | 9 7.2 |
| 21 | 7472 | 7480 | 7487 | 7495 | 7502 | 7510 | 7517 | 7525 | 7533 | 7540 | |
| 22 | 7548 | 7555 | 7563 | 7571 | 7578 | 7586 | 7593 | 7601 | 7609 | 7616 | |
| 23 | 7624 | 7631 | 7639 | 7647 | 7654 | 7662 | 7669 | 7677 | 7684 | 7692 | |
| 24 | 7700 | 7707 | 7715 | 7722 | 7730 | 7738 | 7745 | 7753 | 7760 | 7768 | |
| 25 | 75 7775 | 7783 | 7791 | 7798 | 7806 | 7813 | 7821 | 7829 | 7836 | 7844 | |
| 26 | 7851 | 7859 | 7867 | 7874 | 7882 | 7889 | 7897 | 7904 | 7912 | 7920 | |
| 27 | 7927 | 7935 | 7942 | 7950 | 7958 | 7965 | 7973 | 7980 | 7988 | 7995 | |
| 28 | 8003 | 8011 | 8018 | 8026 | 8033 | 8041 | 8048 | 8056 | 8064 | 8071 | |
| 29 | 8079 | 8086 | 8094 | 8102 | 8109 | 8117 | 8124 | 8132 | 8139 | 8147 | |
| 5730 | 75 8155 | 8162 | 8170 | 8177 | 8185 | 8193 | 8200 | 8208 | 8215 | 8223 | |
| 31 | 8230 | 8238 | 8246 | 8253 | 8261 | 8268 | 8276 | 8283 | 8291 | 8299 | 7 |
| 32 | 8306 | 8314 | 8321 | 8329 | 8336 | 8344 | 8352 | 8359 | 8367 | 8374 | 1 0.7 |
| 33 | 8382 | 8390 | 8397 | 8405 | 8412 | 8420 | 8427 | 8435 | 8443 | 8450 | 2 1.4 |
| 34 | 8458 | 8465 | 8473 | 8480 | 8488 | 8496 | 8503 | 8511 | 8518 | 8526 | 3 2.1 |
| 35 | 75 8533 | 8541 | 8549 | 8556 | 8564 | 8571 | 8579 | 8586 | 8594 | 8602 | 4 2.8 |
| 36 | 8609 | 8617 | 8624 | 8632 | 8639 | 8647 | 8655 | 8662 | 8670 | 8677 | 5 3.5 |
| 37 | 8685 | 8692 | 8700 | 8708 | 8715 | 8723 | 8730 | 8738 | 8745 | 8753 | 6 4.2 |
| 38 | 8761 | 8768 | 8776 | 8783 | 8791 | 8798 | 8806 | 8814 | 8821 | 8829 | 7 4.9 |
| 39 | 8836 | 8844 | 8851 | 8859 | 8866 | 8874 | 8882 | 8889 | 8897 | 8904 | 8 5.6 |
| 5740 | 75 8912 | 8919 | 8927 | 8935 | 8942 | 8950 | 8957 | 8965 | 8972 | 8980 | 9 6.3 |
| 41 | 8988 | 8995 | 9003 | 9010 | 9018 | 9025 | 9033 | 9040 | 9048 | 9056 | |
| 42 | 9063 | 9071 | 9078 | 9086 | 9093 | 9101 | 9109 | 9116 | 9124 | 9131 | |
| 43 | 9139 | 9146 | 9154 | 9162 | 9169 | 9177 | 9184 | 9192 | 9199 | 9207 | |
| 44 | 9214 | 9222 | 9230 | 9237 | 9245 | 9252 | 9260 | 9267 | 9275 | 9282 | |
| 45 | 75 9290 | 9298 | 9305 | 9313 | 9320 | 9328 | 9335 | 9343 | 9351 | 9358 | |
| 46 | 9366 | 9373 | 9381 | 9388 | 9396 | 9403 | 9411 | 9419 | 9426 | 9434 | |
| 47 | 9441 | 9449 | 9456 | 9464 | 9471 | 9479 | 9487 | 9494 | 9502 | 9509 | |
| 48 | 9517 | 9524 | 9532 | 9539 | 9547 | 9555 | 9562 | 9570 | 9577 | 9585 | |
| 49 | 9592 | 9600 | 9607 | 9615 | 9623 | 9630 | 9638 | 9645 | 9653 | 9660 | |
| 5750 | 75 9668 | 9675 | 9683 | 9691 | 9698 | 9706 | 9713 | 9721 | 9728 | 9736 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 57000" = 15° 50' 0" | | | | 5700" = 1° 35' 0" | | | S. 4.685 | 520 | T. 685 | |
| | 57100 = 15 51 40 | | | | 5710 = 1 35 10 | | | | 519 | 686 | |
| | 57200 = 15 53 20 | | | | 5720 = 1 35 20 | | | | 519 | 686 | |
| | 57300 = 15 55 0 | | | | 5730 = 1 35 30 | | | | 519 | 687 | |
| | 57400 = 15 56 40 | | | | 5740 = 1 35 40 | | | | 519 | 687 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|------|--------|------------|----------|------|--------|-------|
| 5750 | 75 9668 | 9675 | 9683 | 9691 | 9698 | 9706 | 9713 | 9721 | 9728 | 9736 | |
| 51 | 9743 | 9751 | 9758 | 9766 | 9774 | 9781 | 9789 | 9796 | 9804 | 9811 | |
| 52 | 9819 | 9826 | 9834 | 9842 | 9849 | 9857 | 9864 | 9872 | 9879 | 9887 | |
| 53 | 9894 | 9902 | 9909 | 9917 | 9925 | 9932 | 9940 | 9947 | 9955 | 9962 | |
| 54 | 9970 | 9977 | 9985 | 9993 | 0000 | 0008 | 0015 | 0023 | 0030 | 0038 | |
| 55 | 76 0045 | 0053 | 0060 | 0068 | 0076 | 0083 | 0091 | 0098 | 0106 | 0113 | |
| 56 | 0121 | 0128 | 0136 | 0143 | 0151 | 0159 | 0166 | 0174 | 0181 | 0189 | |
| 57 | 0196 | 0204 | 0211 | 0219 | 0226 | 0234 | 0241 | 0249 | 0257 | 0264 | |
| 58 | 0272 | 0279 | 0287 | 0294 | 0302 | 0309 | 0317 | 0324 | 0332 | 0340 | |
| 59 | 0347 | 0355 | 0362 | 0370 | 0377 | 0385 | 0392 | 0400 | 0407 | 0415 | |
| 5760 | 76 0422 | 0430 | 0438 | 0445 | 0453 | 0460 | 0468 | 0475 | 0483 | 0490 | |
| 61 | 0498 | 0505 | 0513 | 0520 | 0528 | 0536 | 0543 | 0551 | 0558 | 0566 | 8 |
| 62 | 0573 | 0581 | 0588 | 0596 | 0603 | 0611 | 0618 | 0626 | 0634 | 0641 | 1 0.8 |
| 63 | 0649 | 0656 | 0664 | 0671 | 0679 | 0686 | 0694 | 0701 | 0709 | 0716 | 2 1.6 |
| 64 | 0724 | 0732 | 0739 | 0747 | 0754 | 0762 | 0769 | 0777 | 0784 | 0792 | 3 2.4 |
| 65 | 76 0799 | 0807 | 0814 | 0822 | 0829 | 0837 | 0845 | 0852 | 0860 | 0867 | 4 3.2 |
| 66 | 0875 | 0882 | 0890 | 0897 | 0905 | 0912 | 0920 | 0927 | 0935 | 0942 | 5 4.0 |
| 67 | 0950 | 0957 | 0965 | 0973 | 0980 | 0988 | 0995 | 1003 | 1010 | 1018 | 6 4.8 |
| 68 | 1025 | 1033 | 1040 | 1048 | 1055 | 1063 | 1070 | 1078 | 1085 | 1093 | 7 5.6 |
| 69 | 1101 | 1108 | 1116 | 1123 | 1131 | 1138 | 1146 | 1153 | 1161 | 1168 | 8 6.4 |
| 5770 | 76 1176 | 1183 | 1191 | 1198 | 1206 | 1213 | 1221 | 1228 | 1236 | 1244 | 9 7.2 |
| 71 | 1251 | 1259 | 1266 | 1274 | 1281 | 1289 | 1296 | 1304 | 1311 | 1319 | |
| 72 | 1326 | 1334 | 1341 | 1349 | 1356 | 1364 | 1371 | 1379 | 1387 | 1394 | |
| 73 | 1402 | 1409 | 1417 | 1424 | 1432 | 1439 | 1447 | 1454 | 1462 | 1469 | |
| 74 | 1477 | 1484 | 1492 | 1499 | 1507 | 1514 | 1522 | 1529 | 1537 | 1544 | |
| 75 | 76 1552 | 1560 | 1567 | 1575 | 1582 | 1590 | 1597 | 1605 | 1612 | 1620 | |
| 76 | 1627 | 1635 | 1642 | 1650 | 1657 | 1665 | 1672 | 1680 | 1687 | 1695 | |
| 77 | 1702 | 1710 | 1717 | 1725 | 1732 | 1740 | 1747 | 1755 | 1763 | 1770 | |
| 78 | 1778 | 1785 | 1793 | 1800 | 1808 | 1815 | 1823 | 1830 | 1838 | 1845 | |
| 79 | 1853 | 1860 | 1868 | 1875 | 1883 | 1890 | 1898 | 1905 | 1913 | 1920 | |
| 5780 | 76 1928 | 1935 | 1943 | 1950 | 1958 | 1965 | 1973 | 1980 | 1988 | 1995 | |
| 81 | 2003 | 2010 | 2018 | 2026 | 2033 | 2041 | 2048 | 2056 | 2063 | 2071 | 7 |
| 82 | 2086 | 2093 | 2101 | 2108 | 2116 | 2123 | 2131 | 2138 | 2146 | 2153 | 1 0.7 |
| 83 | 2153 | 2161 | 2168 | 2176 | 2183 | 2191 | 2198 | 2206 | 2213 | 2221 | 2 1.4 |
| 84 | 2228 | 2236 | 2243 | 2251 | 2258 | 2266 | 2273 | 2281 | 2288 | 2296 | 3 2.1 |
| 85 | 76 2303 | 2311 | 2318 | 2326 | 2333 | 2341 | 2348 | 2356 | 2363 | 2371 | 4 2.8 |
| 86 | 2378 | 2386 | 2393 | 2401 | 2408 | 2416 | 2423 | 2431 | 2438 | 2446 | 5 3.5 |
| 87 | 2453 | 2461 | 2468 | 2476 | 2483 | 2491 | 2499 | 2506 | 2514 | 2521 | 6 4.2 |
| 88 | 2529 | 2536 | 2544 | 2551 | 2559 | 2566 | 2574 | 2581 | 2589 | 2596 | 7 4.9 |
| 89 | 2604 | 2611 | 2619 | 2626 | 2634 | 2641 | 2649 | 2656 | 2664 | 2671 | 8 5.6 |
| 5790 | 76 2679 | 2686 | 2694 | 2701 | 2709 | 2716 | 2724 | 2731 | 2739 | 2746 | 9 6.3 |
| 91 | 2754 | 2761 | 2769 | 2776 | 2784 | 2791 | 2799 | 2806 | 2814 | 2821 | |
| 92 | 2829 | 2836 | 2844 | 2851 | 2859 | 2866 | 2874 | 2881 | 2889 | 2896 | |
| 93 | 2904 | 2911 | 2919 | 2926 | 2934 | 2941 | 2949 | 2956 | 2963 | 2971 | |
| 94 | 2978 | 2986 | 2993 | 3001 | 3008 | 3016 | 3023 | 3031 | 3038 | 3046 | |
| 95 | 76 3053 | 3061 | 3068 | 3076 | 3083 | 3091 | 3098 | 3106 | 3113 | 3121 | |
| 96 | 3128 | 3136 | 3143 | 3151 | 3158 | 3166 | 3173 | 3181 | 3188 | 3196 | |
| 97 | 3203 | 3211 | 3218 | 3226 | 3233 | 3241 | 3248 | 3256 | 3263 | 3271 | |
| 98 | 3278 | 3286 | 3293 | 3301 | 3308 | 3316 | 3323 | 3331 | 3338 | 3346 | |
| 99 | 3353 | 3361 | 3368 | 3376 | 3383 | 3391 | 3398 | 3406 | 3413 | 3421 | |
| 5800 | 76 3428 | 3435 | 3443 | 3450 | 3458 | 3465 | 3473 | 3480 | 3488 | 3495 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 57500" | 15° 58' 20" | | | | | 57500" | 1° 35' 50" | S. 4.685 | 519 | T. 687 | |
| 57600 | 16 0 0 | | | | | 57600 | 1 36 0 | | 518 | 688 | |
| 57700 | 16 1 40 | | | | | 57700 | 1 36 10 | | 518 | 688 | |
| 57800 | 16 3 20 | | | | | 57800 | 1 36 20 | | 518 | 689 | |
| 57900 | 16 5 0 | | | | | 57900 | 1 36 30 | | 518 | 689 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|--------------|------|----------|------|--------|-------|
| 5800 | 76 3428 | 3435 | 3443 | 3450 | 3458 | 3465 | 3473 | 3480 | 3488 | 3495 | |
| 01 | 3503 | 3510 | 3518 | 3525 | 3533 | 3540 | 3548 | 3555 | 3563 | 3570 | |
| 02 | 3578 | 3585 | 3593 | 3600 | 3608 | 3615 | 3623 | 3630 | 3638 | 3645 | |
| 03 | 3653 | 3660 | 3668 | 3675 | 3683 | 3690 | 3697 | 3705 | 3712 | 3720 | |
| 04 | 3727 | 3735 | 3742 | 3750 | 3757 | 3765 | 3772 | 3780 | 3787 | 3795 | |
| 05 | 76 3802 | 3810 | 3817 | 3825 | 3832 | 3840 | 3847 | 3855 | 3862 | 3870 | |
| 06 | 3877 | 3885 | 3892 | 3899 | 3907 | 3914 | 3922 | 3929 | 3937 | 3944 | |
| 07 | 3952 | 3959 | 3967 | 3974 | 3982 | 3989 | 3997 | 4004 | 4012 | 4019 | |
| 08 | 4027 | 4034 | 4042 | 4049 | 4057 | 4064 | 4071 | 4079 | 4086 | 4094 | |
| 09 | 4101 | 4109 | 4116 | 4124 | 4131 | 4139 | 4146 | 4154 | 4161 | 4169 | |
| 5810 | 76 4176 | 4184 | 4191 | 4199 | 4206 | 4214 | 4221 | 4228 | 4236 | 4243 | |
| 11 | 4251 | 4258 | 4266 | 4273 | 4281 | 4288 | 4296 | 4303 | 4311 | 4318 | 8 |
| 12 | 4326 | 4333 | 4341 | 4348 | 4355 | 4363 | 4370 | 4378 | 4385 | 4393 | 1 0.8 |
| 13 | 4400 | 4408 | 4415 | 4423 | 4430 | 4438 | 4445 | 4453 | 4460 | 4468 | 2 1.6 |
| 14 | 4475 | 4482 | 4490 | 4497 | 4505 | 4512 | 4520 | 4527 | 4535 | 4542 | 3 2.4 |
| 15 | 76 4550 | 4557 | 4565 | 4572 | 4580 | 4587 | 4595 | 4602 | 4609 | 4617 | 4 3.2 |
| 16 | 4624 | 4632 | 4639 | 4647 | 4654 | 4662 | 4669 | 4677 | 4684 | 4692 | 5 4.0 |
| 17 | 4699 | 4707 | 4714 | 4721 | 4729 | 4736 | 4744 | 4751 | 4759 | 4766 | 6 4.8 |
| 18 | 4774 | 4781 | 4789 | 4796 | 4804 | 4811 | 4819 | 4826 | 4833 | 4841 | 7 5.6 |
| 19 | 4848 | 4856 | 4863 | 4871 | 4878 | 4886 | 4893 | 4901 | 4908 | 4916 | 8 6.4 |
| 5820 | 76 4923 | 4930 | 4938 | 4945 | 4953 | 4960 | 4968 | 4975 | 4983 | 4990 | 9 7.2 |
| 21 | 4998 | 5005 | 5013 | 5020 | 5027 | 5035 | 5042 | 5050 | 5057 | 5065 | |
| 22 | 5072 | 5080 | 5087 | 5095 | 5102 | 5109 | 5117 | 5124 | 5132 | 5139 | |
| 23 | 5147 | 5154 | 5162 | 5169 | 5177 | 5184 | 5192 | 5199 | 5206 | 5214 | |
| 24 | 5221 | 5229 | 5236 | 5244 | 5251 | 5259 | 5266 | 5274 | 5281 | 5288 | |
| 25 | 76 5296 | 5303 | 5311 | 5318 | 5326 | 5333 | 5341 | 5348 | 5356 | 5363 | |
| 26 | 5370 | 5378 | 5385 | 5393 | 5400 | 5408 | 5415 | 5423 | 5430 | 5438 | |
| 27 | 5445 | 5452 | 5460 | 5467 | 5475 | 5482 | 5490 | 5497 | 5505 | 5512 | |
| 28 | 5520 | 5527 | 5534 | 5542 | 5549 | 5557 | 5564 | 5572 | 5579 | 5587 | |
| 29 | 5594 | 5602 | 5609 | 5616 | 5624 | 5631 | 5639 | 5646 | 5654 | 5661 | |
| 5830 | 76 5669 | 5676 | 5683 | 5691 | 5698 | 5706 | 5713 | 5721 | 5728 | 5736 | |
| 31 | 5743 | 5750 | 5758 | 5765 | 5773 | 5780 | 5788 | 5795 | 5803 | 5810 | 7 |
| 32 | 5818 | 5825 | 5832 | 5840 | 5847 | 5855 | 5862 | 5870 | 5877 | 5885 | 1 0.7 |
| 33 | 5892 | 5899 | 5907 | 5914 | 5922 | 5929 | 5937 | 5944 | 5952 | 5959 | 2 1.4 |
| 34 | 5966 | 5974 | 5981 | 5989 | 5996 | 6004 | 6011 | 6019 | 6026 | 6033 | 3 2.1 |
| 35 | 76 6041 | 6048 | 6056 | 6063 | 6071 | 6078 | 6086 | 6093 | 6100 | 6108 | 4 2.8 |
| 36 | 6115 | 6123 | 6130 | 6138 | 6145 | 6152 | 6160 | 6167 | 6175 | 6182 | 5 3.5 |
| 37 | 6190 | 6197 | 6205 | 6212 | 6219 | 6227 | 6234 | 6242 | 6249 | 6257 | 6 4.2 |
| 38 | 6264 | 6272 | 6279 | 6286 | 6294 | 6301 | 6309 | 6316 | 6324 | 6331 | 7 4.9 |
| 39 | 6338 | 6346 | 6353 | 6361 | 6368 | 6376 | 6383 | 6391 | 6398 | 6405 | 8 5.6 |
| 5840 | 76 6413 | 6420 | 6428 | 6435 | 6443 | 6450 | 6457 | 6465 | 6472 | 6480 | 9 6.3 |
| 41 | 6487 | 6495 | 6502 | 6510 | 6517 | 6524 | 6532 | 6539 | 6547 | 6554 | |
| 42 | 6562 | 6569 | 6576 | 6584 | 6591 | 6599 | 6606 | 6614 | 6621 | 6628 | |
| 43 | 6636 | 6643 | 6651 | 6658 | 6666 | 6673 | 6680 | 6688 | 6695 | 6703 | |
| 44 | 6710 | 6718 | 6725 | 6733 | 6740 | 6747 | 6755 | 6762 | 6770 | 6777 | |
| 45 | 76 6785 | 6792 | 6799 | 6807 | 6814 | 6822 | 6829 | 6837 | 6844 | 6851 | |
| 46 | 6859 | 6866 | 6874 | 6881 | 6889 | 6896 | 6903 | 6911 | 6918 | 6926 | |
| 47 | 6933 | 6941 | 6948 | 6955 | 6963 | 6970 | 6978 | 6985 | 6993 | 7000 | |
| 48 | 7007 | 7015 | 7022 | 7030 | 7037 | 7044 | 7052 | 7059 | 7067 | 7074 | |
| 49 | 7082 | 7089 | 7096 | 7104 | 7111 | 7119 | 7126 | 7134 | 7141 | 7148 | |
| 5850 | 76 7156 | 7163 | 7171 | 7178 | 7186 | 7193 | 7200 | 7208 | 7215 | 7223 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 58000 | = 16° 6' 40" | | | | 58000 | = 1° 36' 40" | | S. 4 685 | 518 | T. 689 | |
| 58100 | = 16 8 20 | | | | 58100 | = 1 36 50 | | | 517 | 690 | |
| 58200 | = 16 10 0 | | | | 58200 | = 1 37 0 | | | 517 | 690 | |
| 58300 | = 16 11 40 | | | | 58300 | = 1 37 10 | | | 517 | 691 | |
| 58400 | = 16 13 20 | | | | 58400 | = 1 37 20 | | | 517 | 691 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|--------------|-------|-------|---------------------|-------|-------|-------|
| 5850 | 76 7156 | 7163 | 7171 | 7178 | 7186 | 7193 | 7200 | 7208 | 7215 | 7223 | |
| 51 | 7230 | 7238 | 7245 | 7252 | 7260 | 7267 | 7275 | 7282 | 7289 | 7297 | |
| 52 | 7304 | 7312 | 7319 | 7327 | 7334 | 7341 | 7349 | 7356 | 7364 | 7371 | |
| 53 | 7379 | 7386 | 7393 | 7401 | 7408 | 7416 | 7423 | 7430 | 7438 | 7445 | |
| 54 | 7453 | 7460 | 7468 | 7475 | 7482 | 7490 | 7497 | 7505 | 7512 | 7519 | |
| 55 | 7527 | 7534 | 7542 | 7549 | 7557 | 7564 | 7571 | 7579 | 7586 | 7594 | |
| 56 | 7601 | 7608 | 7616 | 7623 | 7631 | 7638 | 7646 | 7653 | 7660 | 7668 | |
| 57 | 7675 | 7683 | 7690 | 7697 | 7705 | 7712 | 7720 | 7727 | 7735 | 7742 | |
| 58 | 7749 | 7757 | 7764 | 7772 | 7779 | 7786 | 7794 | 7801 | 7809 | 7816 | |
| 59 | 7823 | 7831 | 7838 | 7846 | 7853 | 7861 | 7868 | 7875 | 7883 | 7890 | |
| 5860 | 76 7898 | 7905 | 7912 | 7920 | 7927 | 7935 | 7942 | 7949 | 7957 | 7964 | |
| 61 | 7972 | 7979 | 7987 | 7994 | 8001 | 8009 | 8016 | 8024 | 8031 | 8038 | 8 |
| 62 | 8046 | 8053 | 8061 | 8068 | 8075 | 8083 | 8090 | 8098 | 8105 | 8112 | 1 0.8 |
| 63 | 8120 | 8127 | 8135 | 8142 | 8150 | 8157 | 8164 | 8172 | 8179 | 8187 | 2 1.6 |
| 64 | 8194 | 8201 | 8209 | 8216 | 8224 | 8231 | 8238 | 8246 | 8253 | 8261 | 3 2.4 |
| 65 | 76 8268 | 8275 | 8283 | 8290 | 8298 | 8305 | 8312 | 8320 | 8327 | 8335 | 4 3.2 |
| 66 | 8342 | 8349 | 8357 | 8364 | 8372 | 8379 | 8386 | 8394 | 8401 | 8409 | 5 4.0 |
| 67 | 8416 | 8423 | 8431 | 8438 | 8446 | 8453 | 8460 | 8468 | 8475 | 8483 | 6 4.8 |
| 68 | 8490 | 8498 | 8505 | 8512 | 8520 | 8527 | 8535 | 8542 | 8549 | 8557 | 7 5.6 |
| 69 | 8564 | 8572 | 8579 | 8586 | 8594 | 8601 | 8609 | 8616 | 8623 | 8631 | 8 6.4 |
| 5870 | 76 8643 | 8645 | 8653 | 8660 | 8668 | 8675 | 8682 | 8690 | 8697 | 8705 | 9 7.2 |
| 71 | 8712 | 8719 | 8727 | 8734 | 8742 | 8749 | 8757 | 8764 | 8772 | 8779 | |
| 72 | 8786 | 8793 | 8801 | 8808 | 8816 | 8823 | 8830 | 8838 | 8845 | 8853 | |
| 73 | 8860 | 8867 | 8875 | 8882 | 8890 | 8897 | 8904 | 8912 | 8919 | 8927 | |
| 74 | 8934 | 8941 | 8949 | 8956 | 8964 | 8971 | 8978 | 8986 | 8993 | 9000 | |
| 75 | 76 9008 | 9015 | 9023 | 9030 | 9037 | 9045 | 9052 | 9060 | 9067 | 9074 | |
| 76 | 9082 | 9089 | 9097 | 9104 | 9111 | 9119 | 9126 | 9134 | 9141 | 9148 | |
| 77 | 9156 | 9163 | 9170 | 9178 | 9185 | 9193 | 9200 | 9207 | 9215 | 9222 | |
| 78 | 9230 | 9237 | 9244 | 9252 | 9259 | 9267 | 9274 | 9281 | 9289 | 9296 | |
| 79 | 9303 | 9311 | 9318 | 9326 | 9333 | 9340 | 9348 | 9355 | 9363 | 9370 | |
| 5880 | 76 9377 | 9385 | 9392 | 9399 | 9407 | 9414 | 9422 | 9429 | 9436 | 9444 | |
| 81 | 9451 | 9459 | 9466 | 9473 | 9481 | 9488 | 9495 | 9503 | 9510 | 9518 | 7 |
| 82 | 9525 | 9532 | 9540 | 9547 | 9555 | 9562 | 9569 | 9577 | 9584 | 9591 | 1 0.7 |
| 83 | 9599 | 9606 | 9614 | 9621 | 9628 | 9636 | 9643 | 9651 | 9658 | 9665 | 2 1.4 |
| 84 | 9673 | 9680 | 9687 | 9695 | 9702 | 9710 | 9717 | 9724 | 9732 | 9739 | 3 2.1 |
| 85 | 76 9746 | 9754 | 9761 | 9769 | 9776 | 9783 | 9791 | 9798 | 9806 | 9813 | 4 2.8 |
| 86 | 9820 | 9828 | 9835 | 9842 | 9850 | 9857 | 9865 | 9872 | 9879 | 9887 | 5 3.5 |
| 87 | 9894 | 9901 | 9909 | 9916 | 9924 | 9931 | 9938 | 9946 | 9953 | 9960 | 6 4.2 |
| 88 | 9968 | 9975 | 9983 | 9990 | 9997 | 10005 | 10012 | 10019 | 10027 | 10034 | 7 4.9 |
| 89 | 77 0042 | 0049 | 0056 | 0064 | 0071 | 0078 | 0086 | 0093 | 0101 | 0108 | 8 5.6 |
| 5890 | 77 0115 | 0123 | 0130 | 0137 | 0145 | 0152 | 0160 | 0167 | 0174 | 0182 | 9 6.3 |
| 91 | 0189 | 0196 | 0204 | 0211 | 0219 | 0226 | 0233 | 0241 | 0248 | 0255 | |
| 92 | 0263 | 0270 | 0277 | 0285 | 0292 | 0300 | 0307 | 0314 | 0322 | 0329 | |
| 93 | 0336 | 0344 | 0351 | 0359 | 0366 | 0373 | 0381 | 0388 | 0395 | 0403 | |
| 94 | 0410 | 0417 | 0425 | 0432 | 0440 | 0447 | 0454 | 0462 | 0469 | 0476 | |
| 95 | 77 0484 | 0491 | 0499 | 0506 | 0513 | 0521 | 0528 | 0535 | 0543 | 0550 | |
| 96 | 0557 | 0565 | 0572 | 0580 | 0587 | 0594 | 0602 | 0609 | 0616 | 0624 | |
| 97 | 0631 | 0638 | 0646 | 0653 | 0661 | 0668 | 0675 | 0683 | 0690 | 0697 | |
| 98 | 0705 | 0712 | 0719 | 0727 | 0734 | 0742 | 0749 | 0756 | 0764 | 0771 | |
| 99 | 0778 | 0786 | 0793 | 0800 | 0808 | 0815 | 0823 | 0830 | 0837 | 0845 | |
| 5900 | 77 0852 | 0859 | 0867 | 0874 | 0881 | 0889 | 0896 | 0904 | 0911 | 0918 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 58500 | = 16° 15' 0" | | | 5850 | = 1° 37' 30" | | | S. 4.685 517 T. 691 | | | |
| 58600 | = 16 16 40 | | | 5860 | = 1 37 40 | | | 516 692 | | | |
| 58700 | = 16 18 20 | | | 5870 | = 1 37 50 | | | 516 692 | | | |
| 58800 | = 16 20 0 | | | 5880 | = 1 38 0 | | | 516 693 | | | |
| 58900 | = 16 21 40 | | | 5890 | = 1 38 10 | | | 516 693 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|------|--------|--------------|------|---------------------|------|------|-------|
| 5900 | 77 0852 | 0859 | 0867 | 0874 | 0881 | 0889 | 0896 | 0904 | 0911 | 0918 | |
| 01 | 0926 | 0933 | 0940 | 0948 | 0955 | 0962 | 0970 | 0977 | 0984 | 0992 | |
| 02 | 0999 | 1007 | 1014 | 1021 | 1029 | 1036 | 1043 | 1051 | 1058 | 1065 | |
| 03 | 1073 | 1080 | 1087 | 1095 | 1102 | 1110 | 1117 | 1124 | 1132 | 1139 | |
| 04 | 1146 | 1154 | 1161 | 1168 | 1176 | 1183 | 1190 | 1198 | 1205 | 1213 | |
| 05 | 77 1220 | 1227 | 1235 | 1242 | 1249 | 1257 | 1264 | 1271 | 1279 | 1286 | |
| 06 | 1293 | 1301 | 1308 | 1316 | 1323 | 1330 | 1338 | 1345 | 1352 | 1360 | |
| 07 | 1367 | 1374 | 1382 | 1389 | 1396 | 1404 | 1411 | 1418 | 1426 | 1433 | |
| 08 | 1440 | 1448 | 1455 | 1463 | 1470 | 1477 | 1485 | 1492 | 1499 | 1507 | |
| 09 | 1514 | 1521 | 1529 | 1536 | 1543 | 1551 | 1558 | 1565 | 1573 | 1580 | |
| 5910 | 77 1587 | 1595 | 1602 | 1610 | 1617 | 1624 | 1632 | 1639 | 1646 | 1654 | |
| 11 | 1661 | 1668 | 1676 | 1683 | 1690 | 1698 | 1705 | 1712 | 1720 | 1727 | 8 |
| 12 | 1734 | 1742 | 1749 | 1756 | 1764 | 1771 | 1778 | 1786 | 1793 | 1801 | 1 0.8 |
| 13 | 1808 | 1815 | 1823 | 1830 | 1837 | 1845 | 1852 | 1859 | 1867 | 1874 | 2 1.6 |
| 14 | 1881 | 1889 | 1896 | 1903 | 1911 | 1918 | 1925 | 1933 | 1940 | 1947 | 3 2.4 |
| 15 | 77 1955 | 1962 | 1969 | 1977 | 1984 | 1991 | 1999 | 2006 | 2013 | 2021 | 4 3.2 |
| 16 | 2028 | 2036 | 2043 | 2050 | 2058 | 2065 | 2072 | 2080 | 2087 | 2094 | 5 4.0 |
| 17 | 2102 | 2109 | 2116 | 2124 | 2131 | 2138 | 2146 | 2153 | 2160 | 2168 | 6 4.8 |
| 18 | 2175 | 2182 | 2190 | 2197 | 2204 | 2212 | 2219 | 2226 | 2234 | 2241 | 7 5.6 |
| 19 | 2248 | 2256 | 2263 | 2270 | 2278 | 2285 | 2292 | 2300 | 2307 | 2314 | 8 6.4 |
| 5920 | 77 2322 | 2329 | 2336 | 2344 | 2351 | 2358 | 2366 | 2373 | 2380 | 2388 | 9 7.2 |
| 21 | 2395 | 2402 | 2410 | 2417 | 2424 | 2432 | 2439 | 2446 | 2454 | 2461 | |
| 22 | 2468 | 2476 | 2483 | 2490 | 2498 | 2505 | 2512 | 2520 | 2527 | 2534 | |
| 23 | 2542 | 2549 | 2556 | 2564 | 2571 | 2578 | 2586 | 2593 | 2600 | 2608 | |
| 24 | 2615 | 2622 | 2630 | 2637 | 2644 | 2652 | 2659 | 2666 | 2674 | 2681 | |
| 25 | 77 2688 | 2696 | 2703 | 2710 | 2718 | 2725 | 2732 | 2740 | 2747 | 2754 | |
| 26 | 2762 | 2769 | 2776 | 2784 | 2791 | 2798 | 2806 | 2813 | 2820 | 2828 | |
| 27 | 2835 | 2842 | 2850 | 2857 | 2864 | 2872 | 2879 | 2886 | 2894 | 2901 | |
| 28 | 2908 | 2916 | 2923 | 2930 | 2937 | 2945 | 2952 | 2959 | 2967 | 2974 | |
| 29 | 2981 | 2989 | 2996 | 3003 | 3011 | 3018 | 3025 | 3033 | 3040 | 3047 | |
| 5930 | 77 3055 | 3062 | 3069 | 3077 | 3084 | 3091 | 3099 | 3106 | 3113 | 3121 | |
| 31 | 3128 | 3135 | 3143 | 3150 | 3157 | 3165 | 3172 | 3179 | 3186 | 3194 | 7 |
| 32 | 3201 | 3208 | 3216 | 3223 | 3230 | 3238 | 3245 | 3252 | 3260 | 3267 | 1 0.7 |
| 33 | 3274 | 3282 | 3289 | 3296 | 3304 | 3311 | 3318 | 3326 | 3333 | 3340 | 2 1.4 |
| 34 | 3348 | 3355 | 3362 | 3369 | 3377 | 3384 | 3391 | 3399 | 3406 | 3413 | 3 2.1 |
| 35 | 77 3421 | 3428 | 3435 | 3443 | 3450 | 3457 | 3465 | 3472 | 3479 | 3487 | 4 2.8 |
| 36 | 3494 | 3501 | 3509 | 3516 | 3523 | 3530 | 3538 | 3545 | 3552 | 3560 | 5 3.5 |
| 37 | 3567 | 3574 | 3582 | 3589 | 3596 | 3604 | 3611 | 3618 | 3626 | 3633 | 6 4.2 |
| 38 | 3640 | 3648 | 3655 | 3662 | 3669 | 3677 | 3684 | 3691 | 3699 | 3706 | 7 4.9 |
| 39 | 3713 | 3721 | 3728 | 3735 | 3743 | 3750 | 3757 | 3765 | 3772 | 3779 | 8 5.6 |
| 5940 | 77 3786 | 3794 | 3801 | 3808 | 3816 | 3823 | 3830 | 3838 | 3845 | 3852 | 9 6.3 |
| 41 | 3860 | 3867 | 3874 | 3881 | 3889 | 3896 | 3903 | 3911 | 3918 | 3925 | |
| 42 | 3933 | 3940 | 3947 | 3955 | 3962 | 3969 | 3976 | 3984 | 3991 | 3998 | |
| 43 | 4006 | 4013 | 4020 | 4028 | 4035 | 4042 | 4050 | 4057 | 4064 | 4071 | |
| 44 | 4079 | 4086 | 4093 | 4101 | 4108 | 4115 | 4123 | 4130 | 4137 | 4145 | |
| 45 | 77 4152 | 4159 | 4166 | 4174 | 4181 | 4188 | 4196 | 4203 | 4210 | 4218 | |
| 46 | 4225 | 4232 | 4240 | 4247 | 4254 | 4261 | 4269 | 4276 | 4283 | 4291 | |
| 47 | 4298 | 4305 | 4313 | 4320 | 4327 | 4334 | 4342 | 4349 | 4356 | 4364 | |
| 48 | 4371 | 4378 | 4386 | 4393 | 4400 | 4407 | 4415 | 4422 | 4429 | 4437 | |
| 49 | 4444 | 4451 | 4459 | 4466 | 4473 | 4480 | 4488 | 4495 | 4502 | 4510 | |
| 5950 | 77 4517 | 4524 | 4532 | 4539 | 4546 | 4553 | 4561 | 4568 | 4575 | 4583 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 59000" | = 16° 23' 20" | | | | 59000" | = 1° 38' 20" | | S. 4.685 516 T. 693 | | | |
| 59100 | = 16 25 0 | | | | 59100 | = 1 38 30 | | 515 694 | | | |
| 59200 | = 16 26 40 | | | | 59200 | = 1 38 40 | | 515 694 | | | |
| 59300 | = 16 28 20 | | | | 59300 | = 1 38 50 | | 515 695 | | | |
| 59400 | = 16 30 0 | | | | 59400 | = 1 39 0 | | 515 695 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|----------|------|--------|------|-----|
| 5950 | 77 4517 | 4524 | 4532 | 4539 | 4546 | 4553 | 4561 | 4568 | 4575 | 4583 | |
| 51 | 4590 | 4597 | 4605 | 4612 | 4619 | 4626 | 4634 | 4641 | 4648 | 4656 | |
| 52 | 4663 | 4670 | 4678 | 4685 | 4692 | 4699 | 4707 | 4714 | 4721 | 4729 | |
| 53 | 4736 | 4743 | 4750 | 4758 | 4765 | 4772 | 4780 | 4787 | 4794 | 4802 | |
| 54 | 4809 | 4816 | 4823 | 4831 | 4838 | 4845 | 4853 | 4860 | 4867 | 4874 | |
| 55 | 77 4882 | 4889 | 4896 | 4904 | 4911 | 4918 | 4926 | 4933 | 4940 | 4947 | |
| 56 | 4955 | 4962 | 4969 | 4977 | 4984 | 4991 | 4998 | 5006 | 5013 | 5020 | |
| 57 | 5028 | 5035 | 5042 | 5049 | 5057 | 5064 | 5071 | 5079 | 5086 | 5093 | |
| 58 | 5100 | 5108 | 5115 | 5122 | 5130 | 5137 | 5144 | 5152 | 5159 | 5166 | |
| 59 | 5173 | 5181 | 5188 | 5195 | 5203 | 5210 | 5217 | 5224 | 5232 | 5239 | |
| 5960 | 77 5246 | 5254 | 5261 | 5268 | 5275 | 5283 | 5290 | 5297 | 5305 | 5312 | |
| 61 | 5319 | 5326 | 5334 | 5341 | 5348 | 5356 | 5363 | 5370 | 5377 | 5385 | |
| 62 | 5392 | 5399 | 5407 | 5414 | 5421 | 5428 | 5436 | 5443 | 5450 | 5458 | |
| 63 | 5465 | 5472 | 5479 | 5487 | 5494 | 5501 | 5509 | 5516 | 5523 | 5530 | |
| 64 | 5538 | 5545 | 5552 | 5559 | 5567 | 5574 | 5581 | 5589 | 5596 | 5603 | |
| 65 | 77 5610 | 5618 | 5625 | 5632 | 5640 | 5647 | 5654 | 5661 | 5669 | 5676 | |
| 66 | 5683 | 5691 | 5698 | 5705 | 5712 | 5720 | 5727 | 5734 | 5741 | 5749 | |
| 67 | 5756 | 5763 | 5771 | 5778 | 5785 | 5792 | 5800 | 5807 | 5814 | 5822 | |
| 68 | 5829 | 5836 | 5843 | 5851 | 5858 | 5865 | 5872 | 5880 | 5887 | 5894 | |
| 69 | 5902 | 5909 | 5916 | 5923 | 5931 | 5938 | 5945 | 5953 | 5960 | 5967 | |
| 5970 | 77 5974 | 5982 | 5989 | 5996 | 6003 | 6011 | 6018 | 6025 | 6033 | 6040 | |
| 71 | 6047 | 6054 | 6062 | 6069 | 6076 | 6083 | 6091 | 6098 | 6105 | 6113 | |
| 72 | 6120 | 6127 | 6134 | 6142 | 6149 | 6156 | 6163 | 6171 | 6178 | 6185 | |
| 73 | 6193 | 6200 | 6207 | 6214 | 6222 | 6229 | 6236 | 6243 | 6251 | 6258 | |
| 74 | 6265 | 6272 | 6280 | 6287 | 6294 | 6302 | 6309 | 6316 | 6323 | 6331 | |
| 75 | 77 6338 | 6345 | 6352 | 6360 | 6367 | 6374 | 6382 | 6389 | 6396 | 6403 | |
| 76 | 6411 | 6418 | 6425 | 6432 | 6440 | 6447 | 6454 | 6461 | 6469 | 6476 | |
| 77 | 6483 | 6491 | 6498 | 6505 | 6512 | 6520 | 6527 | 6534 | 6541 | 6549 | |
| 78 | 6556 | 6563 | 6570 | 6578 | 6585 | 6592 | 6599 | 6607 | 6614 | 6621 | |
| 79 | 6629 | 6636 | 6643 | 6650 | 6658 | 6665 | 6672 | 6679 | 6687 | 6694 | |
| 5980 | 77 6701 | 6708 | 6716 | 6723 | 6730 | 6737 | 6745 | 6752 | 6759 | 6767 | |
| 81 | 6774 | 6781 | 6788 | 6796 | 6803 | 6810 | 6817 | 6825 | 6832 | 6839 | |
| 82 | 6846 | 6854 | 6861 | 6868 | 6875 | 6883 | 6890 | 6897 | 6904 | 6912 | |
| 83 | 6929 | 6926 | 6934 | 6941 | 6948 | 6955 | 6963 | 6970 | 6977 | 6984 | |
| 84 | 6992 | 6999 | 7006 | 7013 | 7021 | 7028 | 7035 | 7042 | 7050 | 7057 | |
| 85 | 77 7064 | 7071 | 7079 | 7086 | 7093 | 7100 | 7108 | 7115 | 7122 | 7129 | |
| 86 | 7137 | 7144 | 7151 | 7158 | 7166 | 7173 | 7180 | 7187 | 7195 | 7202 | |
| 87 | 7209 | 7217 | 7224 | 7231 | 7238 | 7246 | 7253 | 7260 | 7267 | 7275 | |
| 88 | 7282 | 7289 | 7296 | 7304 | 7311 | 7318 | 7325 | 7333 | 7340 | 7347 | |
| 89 | 7354 | 7362 | 7369 | 7376 | 7383 | 7391 | 7398 | 7405 | 7412 | 7420 | |
| 5990 | 77 7427 | 7434 | 7441 | 7449 | 7456 | 7463 | 7470 | 7478 | 7485 | 7492 | |
| 91 | 7499 | 7507 | 7514 | 7521 | 7528 | 7536 | 7543 | 7550 | 7557 | 7565 | |
| 92 | 7572 | 7579 | 7586 | 7594 | 7601 | 7608 | 7615 | 7623 | 7630 | 7637 | |
| 93 | 7644 | 7652 | 7659 | 7666 | 7673 | 7681 | 7688 | 7695 | 7702 | 7709 | |
| 94 | 7717 | 7724 | 7731 | 7738 | 7746 | 7753 | 7760 | 7767 | 7775 | 7782 | |
| 95 | 77 7789 | 7796 | 7804 | 7811 | 7818 | 7825 | 7833 | 7840 | 7847 | 7854 | |
| 96 | 7862 | 7869 | 7876 | 7883 | 7891 | 7898 | 7905 | 7912 | 7920 | 7927 | |
| 97 | 7934 | 7941 | 7949 | 7956 | 7963 | 7970 | 7977 | 7985 | 7992 | 7999 | |
| 98 | 8006 | 8014 | 8021 | 8028 | 8035 | 8043 | 8050 | 8057 | 8064 | 8072 | |
| 99 | 8079 | 8086 | 8093 | 8101 | 8108 | 8115 | 8122 | 8130 | 8137 | 8144 | |
| 6000 | 77 8151 | 8158 | 8166 | 8173 | 8180 | 8187 | 8195 | 8202 | 8209 | 8216 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 59500 | = 16° 31' 40" | | | | 59500 | = 1° 39' 10" | S. 4.685 | 515 | T. 695 | | |
| 59600 | = 16 33 20 | | | | 59600 | = 1 39 20 | | 514 | 696 | | |
| 59700 | = 16 35 0 | | | | 59700 | = 1 39 30 | | 514 | 696 | | |
| 59800 | = 16 36 40 | | | | 59800 | = 1 39 40 | | 514 | 697 | | |
| 59900 | = 16 38 20 | | | | 59900 | = 1 39 50 | | 514 | 697 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|--------|-----------|-------|----------|-------|--------|-------|
| 6000 | 77 8151 | 8158 | 8166 | 8173 | 8180 | 8187 | 8195 | 8202 | 8209 | 8216 | |
| 01 | 8224 | 8231 | 8238 | 8245 | 8253 | 8260 | 8267 | 8274 | 8282 | 8289 | |
| 02 | 8296 | 8303 | 8310 | 8318 | 8325 | 8332 | 8339 | 8347 | 8354 | 8361 | |
| 03 | 8368 | 8376 | 8383 | 8390 | 8397 | 8405 | 8412 | 8419 | 8426 | 8433 | |
| 04 | 8441 | 8448 | 8455 | 8462 | 8470 | 8477 | 8484 | 8491 | 8499 | 8506 | |
| 05 | 77 8513 | 8520 | 8527 | 8535 | 8542 | 8549 | 8556 | 8564 | 8571 | 8578 | |
| 06 | 8585 | 8593 | 8600 | 8607 | 8614 | 8621 | 8629 | 8636 | 8643 | 8650 | |
| 07 | 8658 | 8665 | 8672 | 8679 | 8687 | 8694 | 8701 | 8708 | 8715 | 8723 | |
| 08 | 8730 | 8737 | 8744 | 8752 | 8759 | 8766 | 8773 | 8781 | 8788 | 8795 | |
| 09 | 8802 | 8809 | 8817 | 8824 | 8831 | 8838 | 8846 | 8853 | 8860 | 8867 | |
| 6010 | 77 8874 | 8882 | 8889 | 8896 | 8903 | 8911 | 8918 | 8925 | 8932 | 8940 | |
| 11 | 8947 | 8954 | 8961 | 8968 | 8976 | 8983 | 8990 | 8997 | 9005 | 9012 | 8 |
| 12 | 9019 | 9026 | 9033 | 9041 | 9048 | 9055 | 9062 | 9070 | 9077 | 9084 | 1 0.8 |
| 13 | 9091 | 9098 | 9106 | 9113 | 9120 | 9127 | 9135 | 9142 | 9149 | 9156 | 2 1.6 |
| 14 | 9163 | 9171 | 9178 | 9185 | 9192 | 9200 | 9207 | 9214 | 9221 | 9228 | 3 2.4 |
| 15 | 77 9236 | 9243 | 9250 | 9257 | 9265 | 9272 | 9279 | 9286 | 9293 | 9301 | 4 3.2 |
| 16 | 9308 | 9315 | 9322 | 9329 | 9337 | 9344 | 9351 | 9358 | 9366 | 9373 | 5 4.0 |
| 17 | 9380 | 9387 | 9394 | 9402 | 9409 | 9416 | 9423 | 9431 | 9438 | 9445 | 6 4.8 |
| 18 | 9452 | 9459 | 9467 | 9474 | 9481 | 9488 | 9495 | 9503 | 9510 | 9517 | 7 5.6 |
| 19 | 9524 | 9532 | 9539 | 9546 | 9553 | 9560 | 9568 | 9575 | 9582 | 9589 | 8 6.4 |
| 6020 | 77 9596 | 9604 | 9611 | 9618 | 9625 | 9633 | 9640 | 9647 | 9654 | 9661 | 9 7.2 |
| 21 | 9669 | 9676 | 9683 | 9690 | 9697 | 9705 | 9712 | 9719 | 9726 | 9734 | |
| 22 | 9741 | 9748 | 9755 | 9762 | 9770 | 9777 | 9784 | 9791 | 9798 | 9806 | |
| 23 | 9813 | 9820 | 9827 | 9834 | 9842 | 9849 | 9857 | 9864 | 9871 | 9878 | |
| 24 | 9885 | 9892 | 9899 | 9907 | 9914 | 9921 | 9928 | 9935 | 9942 | 9950 | |
| 25 | 77 9957 | 9964 | 9971 | 9979 | 9986 | 9993 | 10000 | 10008 | 10015 | 10022 | |
| 26 | 78 0029 | 0036 | 0044 | 0051 | 0058 | 0065 | 0072 | 0080 | 0087 | 0094 | |
| 27 | 0101 | 0108 | 0116 | 0123 | 0130 | 0137 | 0144 | 0152 | 0159 | 0166 | |
| 28 | 0173 | 0180 | 0188 | 0195 | 0202 | 0209 | 0216 | 0224 | 0231 | 0238 | |
| 29 | 0245 | 0252 | 0260 | 0267 | 0274 | 0281 | 0289 | 0296 | 0303 | 0310 | |
| 6030 | 78 0327 | 0335 | 0342 | 0350 | 0357 | 0365 | 0372 | 0380 | 0387 | 0394 | |
| 31 | 0401 | 0408 | 0416 | 0423 | 0430 | 0438 | 0445 | 0452 | 0460 | 0467 | 7 |
| 32 | 0475 | 0482 | 0490 | 0497 | 0505 | 0512 | 0520 | 0527 | 0534 | 0542 | 1 0.7 |
| 33 | 0555 | 0562 | 0570 | 0577 | 0585 | 0592 | 0600 | 0607 | 0614 | 0622 | 2 1.4 |
| 34 | 0635 | 0643 | 0650 | 0657 | 0665 | 0672 | 0680 | 0687 | 0694 | 0702 | 3 2.1 |
| 35 | 78 0677 | 0684 | 0692 | 0699 | 0706 | 0713 | 0720 | 0728 | 0735 | 0742 | 4 2.8 |
| 36 | 0749 | 0756 | 0764 | 0771 | 0778 | 0785 | 0792 | 0800 | 0807 | 0814 | 5 3.5 |
| 37 | 0821 | 0828 | 0836 | 0843 | 0850 | 0857 | 0864 | 0872 | 0879 | 0886 | 6 4.2 |
| 38 | 0893 | 0900 | 0907 | 0915 | 0922 | 0929 | 0936 | 0943 | 0951 | 0958 | 7 4.9 |
| 39 | 0965 | 0972 | 0979 | 0987 | 0994 | 1001 | 1008 | 1015 | 1023 | 1030 | 8 5.6 |
| 6040 | 78 1037 | 1044 | 1051 | 1059 | 1066 | 1073 | 1080 | 1087 | 1094 | 1102 | 9 6.3 |
| 41 | 1109 | 1116 | 1123 | 1130 | 1138 | 1145 | 1152 | 1159 | 1166 | 1174 | |
| 42 | 1181 | 1188 | 1195 | 1202 | 1209 | 1217 | 1224 | 1231 | 1238 | 1245 | |
| 43 | 1253 | 1260 | 1267 | 1274 | 1281 | 1289 | 1296 | 1303 | 1310 | 1317 | |
| 44 | 1324 | 1332 | 1339 | 1346 | 1353 | 1360 | 1368 | 1375 | 1382 | 1389 | |
| 45 | 78 1396 | 1403 | 1411 | 1418 | 1425 | 1432 | 1439 | 1447 | 1454 | 1461 | |
| 46 | 1468 | 1475 | 1483 | 1490 | 1497 | 1504 | 1511 | 1518 | 1526 | 1533 | |
| 47 | 1540 | 1547 | 1554 | 1562 | 1569 | 1576 | 1583 | 1590 | 1597 | 1605 | |
| 48 | 1612 | 1619 | 1626 | 1633 | 1641 | 1648 | 1655 | 1662 | 1669 | 1676 | |
| 49 | 1684 | 1691 | 1698 | 1705 | 1712 | 1719 | 1727 | 1734 | 1741 | 1748 | |
| 6050 | 78 1755 | 1763 | 1770 | 1777 | 1784 | 1791 | 1798 | 1806 | 1813 | 1820 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 60000" | 16° 40' 0" | | | | 60000" | 1° 40' 0" | | S. 4,685 | 514 | T. 697 | |
| 60100 | 16 41 40 | | | | 60100 | 1 40 10 | | | 513 | 698 | |
| 60200 | 16 43 20 | | | | 60200 | 1 40 20 | | | 513 | 698 | |
| 60300 | 16 45 0 | | | | 60300 | 1 40 30 | | | 513 | 699 | |
| 60400 | 16 46 40 | | | | 60400 | 1 40 40 | | | 513 | 699 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|----------|------|--------|-------|
| 6050 | 78 1755 | 1763 | 1770 | 1777 | 1784 | 1791 | 1798 | 1806 | 1813 | 1820 | |
| 51 | 1827 | 1834 | 1842 | 1849 | 1856 | 1863 | 1870 | 1877 | 1885 | 1892 | |
| 52 | 1899 | 1906 | 1913 | 1920 | 1928 | 1935 | 1942 | 1949 | 1956 | 1963 | |
| 53 | 1971 | 1978 | 1985 | 1992 | 1999 | 2007 | 2014 | 2021 | 2028 | 2035 | |
| 54 | 2042 | 2050 | 2057 | 2064 | 2071 | 2078 | 2085 | 2093 | 2100 | 2107 | |
| 55 | 78 2114 | 2121 | 2128 | 2136 | 2143 | 2150 | 2157 | 2164 | 2172 | 2179 | |
| 56 | 2186 | 2193 | 2200 | 2207 | 2215 | 2222 | 2229 | 2236 | 2243 | 2250 | |
| 57 | 2258 | 2265 | 2272 | 2279 | 2286 | 2293 | 2301 | 2308 | 2315 | 2322 | |
| 58 | 2329 | 2336 | 2344 | 2351 | 2358 | 2365 | 2372 | 2379 | 2387 | 2394 | |
| 59 | 2401 | 2408 | 2415 | 2422 | 2430 | 2437 | 2444 | 2451 | 2458 | 2465 | |
| 6060 | 78 2473 | 2480 | 2487 | 2494 | 2501 | 2508 | 2516 | 2523 | 2530 | 2537 | |
| 61 | 2544 | 2551 | 2559 | 2566 | 2573 | 2580 | 2587 | 2594 | 2602 | 2609 | 8 |
| 62 | 2616 | 2623 | 2630 | 2637 | 2645 | 2652 | 2659 | 2666 | 2673 | 2680 | 1 0.8 |
| 63 | 2688 | 2695 | 2702 | 2709 | 2716 | 2723 | 2731 | 2738 | 2745 | 2752 | 2 1.6 |
| 64 | 2759 | 2766 | 2774 | 2781 | 2788 | 2795 | 2802 | 2809 | 2816 | 2824 | 3 2.4 |
| 65 | 78 2831 | 2838 | 2845 | 2852 | 2859 | 2867 | 2874 | 2881 | 2888 | 2895 | 4 3.2 |
| 66 | 2902 | 2910 | 2917 | 2924 | 2931 | 2938 | 2945 | 2953 | 2960 | 2967 | 5 4.0 |
| 67 | 2974 | 2981 | 2988 | 2995 | 3003 | 3010 | 3017 | 3024 | 3031 | 3038 | 6 4.8 |
| 68 | 3046 | 3053 | 3060 | 3067 | 3074 | 3081 | 3089 | 3096 | 3103 | 3110 | 7 5.6 |
| 69 | 3117 | 3124 | 3131 | 3139 | 3146 | 3153 | 3160 | 3167 | 3174 | 3182 | 8 6.4 |
| 6070 | 78 3189 | 3196 | 3203 | 3210 | 3217 | 3224 | 3232 | 3239 | 3246 | 3253 | 9 7.2 |
| 71 | 3260 | 3267 | 3275 | 3282 | 3289 | 3296 | 3303 | 3310 | 3317 | 3325 | |
| 72 | 3332 | 3339 | 3346 | 3353 | 3360 | 3368 | 3375 | 3382 | 3389 | 3396 | |
| 73 | 3403 | 3410 | 3418 | 3425 | 3432 | 3439 | 3446 | 3453 | 3460 | 3468 | |
| 74 | 3475 | 3482 | 3489 | 3496 | 3503 | 3511 | 3518 | 3525 | 3532 | 3539 | |
| 75 | 78 3546 | 3553 | 3561 | 3568 | 3575 | 3582 | 3589 | 3596 | 3603 | 3611 | |
| 76 | 3618 | 3625 | 3632 | 3639 | 3646 | 3654 | 3661 | 3668 | 3675 | 3682 | |
| 77 | 3689 | 3696 | 3704 | 3711 | 3718 | 3725 | 3732 | 3739 | 3746 | 3754 | |
| 78 | 3761 | 3768 | 3775 | 3782 | 3789 | 3796 | 3804 | 3811 | 3818 | 3825 | |
| 79 | 3832 | 3839 | 3846 | 3854 | 3861 | 3868 | 3875 | 3882 | 3889 | 3896 | |
| 6080 | 78 3904 | 3911 | 3918 | 3925 | 3932 | 3939 | 3946 | 3954 | 3961 | 3968 | |
| 81 | 3975 | 3982 | 3989 | 3996 | 4004 | 4011 | 4018 | 4025 | 4032 | 4039 | 7 |
| 82 | 4046 | 4054 | 4061 | 4068 | 4075 | 4082 | 4089 | 4096 | 4104 | 4111 | 1 0.7 |
| 83 | 4118 | 4125 | 4132 | 4139 | 4146 | 4154 | 4161 | 4168 | 4175 | 4182 | 2 1.4 |
| 84 | 4189 | 4196 | 4203 | 4211 | 4218 | 4225 | 4232 | 4239 | 4246 | 4253 | 3 2.1 |
| 85 | 78 4261 | 4268 | 4275 | 4282 | 4289 | 4296 | 4303 | 4311 | 4318 | 4325 | 4 2.8 |
| 86 | 4332 | 4339 | 4346 | 4353 | 4360 | 4368 | 4375 | 4382 | 4389 | 4396 | 5 3.5 |
| 87 | 4403 | 4410 | 4418 | 4425 | 4432 | 4439 | 4446 | 4453 | 4460 | 4468 | 6 4.2 |
| 88 | 4475 | 4482 | 4490 | 4496 | 4503 | 4510 | 4517 | 4525 | 4532 | 4539 | 7 4.9 |
| 89 | 4546 | 4553 | 4561 | 4567 | 4575 | 4582 | 4589 | 4596 | 4603 | 4610 | 8 5.6 |
| 6090 | 78 4617 | 4624 | 4632 | 4639 | 4646 | 4653 | 4660 | 4667 | 4674 | 4681 | 9 6.3 |
| 91 | 4689 | 4696 | 4703 | 4710 | 4717 | 4724 | 4731 | 4739 | 4746 | 4753 | |
| 92 | 4760 | 4767 | 4774 | 4781 | 4788 | 4796 | 4803 | 4810 | 4817 | 4824 | |
| 93 | 4831 | 4838 | 4845 | 4853 | 4860 | 4867 | 4874 | 4881 | 4888 | 4895 | |
| 94 | 4902 | 4910 | 4917 | 4924 | 4931 | 4938 | 4945 | 4952 | 4959 | 4967 | |
| 95 | 78 4974 | 4981 | 4988 | 4995 | 5002 | 5009 | 5016 | 5024 | 5031 | 5038 | |
| 96 | 5045 | 5052 | 5059 | 5066 | 5073 | 5081 | 5088 | 5095 | 5102 | 5109 | |
| 97 | 5116 | 5123 | 5130 | 5138 | 5145 | 5152 | 5159 | 5166 | 5173 | 5180 | |
| 98 | 5187 | 5195 | 5202 | 5209 | 5216 | 5223 | 5230 | 5237 | 5244 | 5252 | |
| 99 | 5259 | 5266 | 5273 | 5280 | 5287 | 5294 | 5301 | 5308 | 5316 | 5323 | |
| 6100 | 78 5330 | 5337 | 5344 | 5351 | 5358 | 5365 | 5373 | 5380 | 5387 | 5394 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 60500 | = 16° 48' 20" | | | | 60500 | = 1° 40' 50" | | S. 4,685 | 513 | T. 699 | |
| 60600 | = 16 50 0 | | | | 60600 | = 1 41 0 | | | 512 | 700 | |
| 60700 | = 16 51 40 | | | | 60700 | = 1 41 10 | | | 512 | 700 | |
| 60800 | = 16 53 20 | | | | 60800 | = 1 41 20 | | | 512 | 701 | |
| 60900 | = 16 55 0 | | | | 60900 | = 1 41 30 | | | 512 | 701 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-------------|------|------|------|------|--------------------|------|----------|------|--------|-------|
| 6100 | 78 5330 | 5337 | 5344 | 5351 | 5358 | 5365 | 5373 | 5380 | 5387 | 5394 | |
| 01 | 5401 | 5408 | 5415 | 5422 | 5429 | 5437 | 5444 | 5451 | 5458 | 5465 | |
| 02 | 5472 | 5479 | 5486 | 5494 | 5501 | 5508 | 5515 | 5522 | 5529 | 5536 | |
| 03 | 5543 | 5550 | 5558 | 5565 | 5572 | 5579 | 5586 | 5593 | 5600 | 5607 | |
| 04 | 5615 | 5622 | 5629 | 5636 | 5643 | 5650 | 5657 | 5664 | 5671 | 5679 | |
| 05 | 78 5686 | 5693 | 5700 | 5707 | 5714 | 5721 | 5728 | 5735 | 5743 | 5750 | |
| 06 | 5757 | 5764 | 5771 | 5778 | 5785 | 5792 | 5799 | 5807 | 5814 | 5821 | |
| 07 | 5828 | 5835 | 5842 | 5849 | 5856 | 5863 | 5871 | 5878 | 5885 | 5892 | |
| 08 | 5899 | 5906 | 5913 | 5920 | 5927 | 5935 | 5942 | 5949 | 5956 | 5963 | |
| 09 | 5970 | 5977 | 5984 | 5991 | 5999 | 6006 | 6013 | 6020 | 6027 | 6034 | |
| 6110 | 78 6041 | 6048 | 6055 | 6063 | 6070 | 6077 | 6084 | 6091 | 6098 | 6105 | |
| 11 | 6112 | 6119 | 6126 | 6134 | 6141 | 6148 | 6155 | 6162 | 6169 | 6176 | 8 |
| 12 | 6183 | 6190 | 6198 | 6205 | 6212 | 6219 | 6226 | 6233 | 6240 | 6247 | 1 0.8 |
| 13 | 6254 | 6262 | 6269 | 6276 | 6283 | 6290 | 6297 | 6304 | 6311 | 6318 | 2 1.6 |
| 14 | 6325 | 6333 | 6340 | 6347 | 6354 | 6361 | 6368 | 6375 | 6382 | 6389 | 3 2.4 |
| 15 | 78 6396 | 6404 | 6411 | 6418 | 6425 | 6432 | 6439 | 6446 | 6453 | 6460 | 4 3.2 |
| 16 | 6467 | 6475 | 6482 | 6489 | 6496 | 6503 | 6510 | 6517 | 6524 | 6531 | 5 4.0 |
| 17 | 6538 | 6546 | 6553 | 6560 | 6567 | 6574 | 6581 | 6588 | 6595 | 6602 | 6 4.8 |
| 18 | 6609 | 6617 | 6624 | 6631 | 6638 | 6645 | 6652 | 6659 | 6666 | 6673 | 7 5.6 |
| 19 | 6680 | 6688 | 6695 | 6702 | 6709 | 6716 | 6723 | 6730 | 6737 | 6744 | 8 6.4 |
| 6120 | 78 6751 | 6759 | 6766 | 6773 | 6780 | 6787 | 6794 | 6801 | 6808 | 6815 | 9 7.2 |
| 21 | 6822 | 6829 | 6837 | 6844 | 6851 | 6858 | 6865 | 6872 | 6879 | 6886 | |
| 22 | 6893 | 6900 | 6908 | 6915 | 6922 | 6929 | 6936 | 6943 | 6950 | 6957 | |
| 23 | 6964 | 6971 | 6978 | 6986 | 6993 | 7000 | 7007 | 7014 | 7021 | 7028 | |
| 24 | 7035 | 7042 | 7049 | 7056 | 7064 | 7071 | 7078 | 7085 | 7092 | 7099 | |
| 25 | 78 7106 | 7113 | 7120 | 7127 | 7134 | 7142 | 7149 | 7156 | 7163 | 7170 | |
| 26 | 7177 | 7184 | 7191 | 7198 | 7205 | 7212 | 7220 | 7227 | 7234 | 7241 | |
| 27 | 7248 | 7255 | 7262 | 7269 | 7276 | 7283 | 7290 | 7297 | 7305 | 7312 | |
| 28 | 7319 | 7326 | 7333 | 7340 | 7347 | 7354 | 7361 | 7368 | 7375 | 7383 | |
| 29 | 7390 | 7397 | 7404 | 7411 | 7418 | 7425 | 7432 | 7439 | 7446 | 7453 | |
| 6130 | 78 7460 | 7468 | 7475 | 7482 | 7489 | 7496 | 7503 | 7510 | 7517 | 7524 | |
| 31 | 7531 | 7538 | 7545 | 7553 | 7560 | 7567 | 7574 | 7581 | 7588 | 7595 | 7 |
| 32 | 7602 | 7609 | 7616 | 7623 | 7630 | 7637 | 7645 | 7652 | 7659 | 7666 | 1 0.7 |
| 33 | 7673 | 7680 | 7687 | 7694 | 7701 | 7708 | 7715 | 7723 | 7730 | 7737 | 2 1.4 |
| 34 | 7744 | 7751 | 7758 | 7765 | 7772 | 7779 | 7786 | 7793 | 7800 | 7807 | 3 2.1 |
| 35 | 78 7815 | 7822 | 7829 | 7836 | 7843 | 7850 | 7857 | 7864 | 7871 | 7878 | 4 2.8 |
| 36 | 7885 | 7892 | 7900 | 7907 | 7914 | 7921 | 7928 | 7935 | 7942 | 7949 | 5 3.5 |
| 37 | 7956 | 7963 | 7970 | 7977 | 7984 | 7992 | 7999 | 8006 | 8013 | 8020 | 6 4.2 |
| 38 | 8027 | 8034 | 8041 | 8048 | 8055 | 8062 | 8069 | 8076 | 8083 | 8091 | 7 4.9 |
| 39 | 8098 | 8105 | 8112 | 8119 | 8126 | 8133 | 8140 | 8147 | 8154 | 8161 | 8 5.6 |
| 6140 | 78 8168 | 8175 | 8183 | 8190 | 8197 | 8204 | 8211 | 8218 | 8225 | 8232 | 9 6.3 |
| 41 | 8239 | 8246 | 8253 | 8260 | 8267 | 8274 | 8282 | 8289 | 8296 | 8303 | |
| 42 | 8310 | 8317 | 8324 | 8331 | 8338 | 8345 | 8352 | 8359 | 8366 | 8373 | |
| 43 | 8381 | 8388 | 8395 | 8402 | 8409 | 8416 | 8423 | 8430 | 8437 | 8444 | |
| 44 | 8451 | 8458 | 8465 | 8472 | 8479 | 8487 | 8494 | 8501 | 8508 | 8515 | |
| 45 | 78 8522 | 8529 | 8536 | 8543 | 8550 | 8557 | 8564 | 8571 | 8578 | 8585 | |
| 46 | 8593 | 8600 | 8607 | 8614 | 8621 | 8628 | 8635 | 8642 | 8649 | 8656 | |
| 47 | 8663 | 8670 | 8677 | 8684 | 8691 | 8699 | 8706 | 8713 | 8720 | 8727 | |
| 48 | 8734 | 8741 | 8748 | 8755 | 8762 | 8769 | 8776 | 8783 | 8790 | 8797 | |
| 49 | 8804 | 8812 | 8819 | 8826 | 8833 | 8840 | 8847 | 8854 | 8861 | 8868 | |
| 6150 | 78 8875 | 8882 | 8889 | 8896 | 8903 | 8910 | 8917 | 8925 | 8932 | 8939 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 6100" | 16° 56' 40" | | | | | 6100" = 1° 41' 40" | | S. 4.685 | 512 | T. 702 | |
| 61100 | 16 58 20 | | | | | 6110 = 1 41 50 | | | 511 | 702 | |
| 61200 | 17 0 0 | | | | | 6120 = 1 42 0 | | | 511 | 703 | |
| 61300 | 17 1 40 | | | | | 6130 = 1 42 10 | | | 511 | 703 | |
| 61400 | 17 3 20 | | | | | 6140 = 1 42 20 | | | 511 | 703 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-------------|------|------|------|-------|--------------|----------|------|--------|------|-------|
| 6150 | 78 8875 | 8882 | 8889 | 8896 | 8903 | 8910 | 8917 | 8925 | 8932 | 8939 | |
| 51 | 8946 | 8953 | 8960 | 8967 | 8974 | 8981 | 8988 | 8995 | 9002 | 9009 | |
| 52 | 9016 | 9023 | 9030 | 9038 | 9045 | 9052 | 9059 | 9066 | 9073 | 9080 | |
| 53 | 9087 | 9094 | 9101 | 9108 | 9115 | 9122 | 9129 | 9136 | 9143 | 9150 | |
| 54 | 9157 | 9165 | 9172 | 9179 | 9186 | 9193 | 9200 | 9207 | 9214 | 9221 | |
| 55 | 9228 | 9235 | 9242 | 9249 | 9256 | 9263 | 9270 | 9277 | 9285 | 9292 | |
| 56 | 9299 | 9306 | 9313 | 9320 | 9327 | 9334 | 9341 | 9348 | 9355 | 9362 | |
| 57 | 9369 | 9376 | 9383 | 9390 | 9397 | 9404 | 9411 | 9419 | 9426 | 9433 | |
| 58 | 9440 | 9447 | 9454 | 9461 | 9468 | 9475 | 9482 | 9489 | 9496 | 9503 | |
| 59 | 9510 | 9517 | 9524 | 9531 | 9538 | 9545 | 9553 | 9560 | 9567 | 9574 | |
| 6160 | 78 9581 | 9588 | 9595 | 9602 | 9609 | 9616 | 9623 | 9630 | 9637 | 9644 | |
| 61 | 9651 | 9658 | 9665 | 9672 | 9679 | 9686 | 9694 | 9701 | 9708 | 9715 | 8 |
| 62 | 9722 | 9729 | 9736 | 9743 | 9750 | 9757 | 9764 | 9771 | 9778 | 9785 | 1 0.8 |
| 63 | 9792 | 9799 | 9806 | 9813 | 9820 | 9827 | 9834 | 9841 | 9849 | 9856 | 2 1.6 |
| 64 | 9863 | 9870 | 9877 | 9884 | 9891 | 9898 | 9905 | 9912 | 9919 | 9926 | 3 2.4 |
| 65 | 78 9933 | 9940 | 9947 | 9954 | 9961 | 9968 | 9975 | 9982 | 9989 | 9996 | 4 3.2 |
| 66 | 79 0004 | 0011 | 0018 | 0025 | 0032 | 0039 | 0046 | 0053 | 0060 | 0067 | 5 4.0 |
| 67 | 0074 | 0081 | 0088 | 0095 | 0102 | 0109 | 0116 | 0123 | 0130 | 0137 | 6 4.8 |
| 68 | 0144 | 0151 | 0158 | 0165 | 0173 | 0180 | 0187 | 0194 | 0201 | 0208 | 7 5.6 |
| 69 | 0215 | 0222 | 0229 | 0236 | 0243 | 0250 | 0257 | 0264 | 0271 | 0278 | 8 6.4 |
| 6170 | 79 0285 | 0292 | 0299 | 0306 | 0313 | 0320 | 0327 | 0334 | 0341 | 0349 | 9 7.2 |
| 71 | 0356 | 0363 | 0370 | 0377 | 0384 | 0391 | 0398 | 0405 | 0412 | 0419 | |
| 72 | 0426 | 0433 | 0440 | 0447 | 0454 | 0461 | 0468 | 0475 | 0482 | 0489 | |
| 73 | 0496 | 0503 | 0510 | 0517 | 0524 | 0531 | 0538 | 0546 | 0553 | 0560 | |
| 74 | 0567 | 0574 | 0581 | 0588 | 0595 | 0602 | 0609 | 0616 | 0623 | 0630 | |
| 75 | 79 0637 | 0644 | 0651 | 0658 | 0665 | 0672 | 0679 | 0686 | 0693 | 0700 | |
| 76 | 0707 | 0714 | 0721 | 0728 | 0735 | 0742 | 0749 | 0757 | 0764 | 0771 | |
| 77 | 0778 | 0785 | 0792 | 0799 | 0806 | 0813 | 0820 | 0827 | 0834 | 0841 | |
| 78 | 0848 | 0855 | 0862 | 0869 | 0876 | 0883 | 0890 | 0897 | 0904 | 0911 | |
| 79 | 0918 | 0925 | 0932 | 0939 | 0946 | 0953 | 0960 | 0967 | 0974 | 0981 | |
| 6180 | 79 0988 | 0996 | 1003 | 1010 | 1017 | 1024 | 1031 | 1038 | 1045 | 1052 | |
| 81 | 1059 | 1066 | 1073 | 1080 | 1087 | 1094 | 1101 | 1108 | 1115 | 1122 | 7 |
| 82 | 1129 | 1136 | 1143 | 1150 | 1157 | 1164 | 1171 | 1178 | 1185 | 1192 | 1 0.7 |
| 83 | 1199 | 1206 | 1213 | 1220 | 1227 | 1234 | 1241 | 1248 | 1255 | 1262 | 2 1.4 |
| 84 | 1269 | 1277 | 1284 | 1291 | 1298 | 1305 | 1312 | 1319 | 1326 | 1333 | 3 2.1 |
| 85 | 79 1340 | 1347 | 1354 | 1361 | 1368 | 1375 | 1382 | 1389 | 1396 | 1403 | 4 2.8 |
| 86 | 1410 | 1417 | 1424 | 1431 | 1438 | 1445 | 1452 | 1459 | 1466 | 1473 | 5 3.5 |
| 87 | 1480 | 1487 | 1494 | 1501 | 1508 | 1515 | 1522 | 1529 | 1536 | 1543 | 6 4.2 |
| 88 | 1550 | 1557 | 1564 | 1571 | 1578 | 1585 | 1592 | 1599 | 1606 | 1613 | 7 4.9 |
| 89 | 1620 | 1627 | 1635 | 1642 | 1649 | 1656 | 1663 | 1670 | 1677 | 1684 | 8 5.6 |
| 6190 | 79 1691 | 1698 | 1705 | 1712 | 1719 | 1726 | 1733 | 1740 | 1747 | 1754 | 9 6.3 |
| 91 | 1761 | 1768 | 1775 | 1782 | 1789 | 1796 | 1803 | 1810 | 1817 | 1824 | |
| 92 | 1831 | 1838 | 1845 | 1852 | 1859 | 1866 | 1873 | 1880 | 1887 | 1894 | |
| 93 | 1901 | 1908 | 1915 | 1922 | 1929 | 1936 | 1943 | 1950 | 1957 | 1964 | |
| 94 | 1971 | 1978 | 1985 | 1992 | 1999 | 2006 | 2013 | 2020 | 2027 | 2034 | |
| 95 | 79 2041 | 2048 | 2055 | 2062 | 2069 | 2076 | 2083 | 2090 | 2097 | 2104 | |
| 96 | 2111 | 2118 | 2125 | 2132 | 2139 | 2146 | 2153 | 2160 | 2167 | 2174 | |
| 97 | 2181 | 2189 | 2196 | 2203 | 2210 | 2217 | 2224 | 2231 | 2238 | 2245 | |
| 98 | 2252 | 2259 | 2266 | 2273 | 2280 | 2287 | 2294 | 2301 | 2308 | 2315 | |
| 99 | 2322 | 2329 | 2336 | 2343 | 2350 | 2357 | 2364 | 2371 | 2378 | 2385 | |
| 6200 | 79 2392 | 2399 | 2406 | 2413 | 2420 | 2427 | 2434 | 2441 | 2448 | 2455 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 61500 | = 17° 5' 0" | | | | 61500 | = 1° 42' 30" | S. 4.685 | 511 | T. 704 | | |
| 61600 | = 17 6 40 | | | | 61600 | = 1 42 40 | | 510 | 704 | | |
| 61700 | = 17 8 20 | | | | 61700 | = 1 42 50 | | 510 | 705 | | |
| 61800 | = 17 10 0 | | | | 61800 | = 1 43 0 | | 510 | 705 | | |
| 61900 | = 17 11 40 | | | | 61900 | = 1 43 10 | | 510 | 705 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|----------|-------------|------|------|------|----------|------------|----------|------|--------|------|-------|
| 6200 | 79 2392 | 2399 | 2406 | 2413 | 2420 | 2427 | 2434 | 2441 | 2448 | 2455 | |
| 01 | 2462 | 2469 | 2476 | 2483 | 2490 | 2497 | 2504 | 2511 | 2518 | 2525 | |
| 02 | 2532 | 2539 | 2546 | 2553 | 2560 | 2567 | 2574 | 2581 | 2588 | 2595 | |
| 03 | 2602 | 2609 | 2616 | 2623 | 2630 | 2637 | 2644 | 2651 | 2658 | 2665 | |
| 04 | 2672 | 2679 | 2686 | 2693 | 2700 | 2707 | 2714 | 2721 | 2728 | 2735 | |
| 05 | 79 2742 | 2749 | 2756 | 2763 | 2770 | 2777 | 2784 | 2791 | 2798 | 2805 | |
| 06 | 2812 | 2819 | 2826 | 2833 | 2840 | 2847 | 2854 | 2861 | 2868 | 2875 | |
| 07 | 2882 | 2889 | 2896 | 2903 | 2910 | 2917 | 2924 | 2931 | 2938 | 2945 | |
| 08 | 2952 | 2959 | 2966 | 2973 | 2980 | 2987 | 2994 | 3001 | 3008 | 3015 | |
| 09 | 3022 | 3029 | 3036 | 3043 | 3050 | 3057 | 3064 | 3071 | 3078 | 3085 | |
| 6210 | 79 3092 | 3099 | 3106 | 3113 | 3120 | 3127 | 3134 | 3141 | 3148 | 3155 | |
| 11 | 3162 | 3169 | 3176 | 3183 | 3189 | 3196 | 3203 | 3210 | 3217 | 3224 | 7 |
| 12 | 3231 | 3238 | 3245 | 3252 | 3259 | 3266 | 3273 | 3280 | 3287 | 3294 | 1 0.7 |
| 13 | 3301 | 3308 | 3315 | 3322 | 3329 | 3336 | 3343 | 3350 | 3357 | 3364 | 2 1.4 |
| 14 | 3371 | 3378 | 3385 | 3392 | 3399 | 3406 | 3413 | 3420 | 3427 | 3434 | 3 2.1 |
| 15 | 79 3441 | 3448 | 3455 | 3462 | 3469 | 3476 | 3483 | 3490 | 3497 | 3504 | 4 2.8 |
| 16 | 3511 | 3518 | 3525 | 3532 | 3539 | 3546 | 3553 | 3560 | 3567 | 3574 | 5 3.5 |
| 17 | 3581 | 3588 | 3595 | 3602 | 3609 | 3616 | 3623 | 3630 | 3637 | 3644 | 6 4.2 |
| 18 | 3651 | 3658 | 3665 | 3672 | 3679 | 3686 | 3693 | 3700 | 3707 | 3714 | 7 4.9 |
| 19 | 3721 | 3728 | 3735 | 3742 | 3748 | 3755 | 3762 | 3769 | 3776 | 3783 | 8 5.6 |
| 6220 | 79 3790 | 3797 | 3804 | 3811 | 3818 | 3825 | 3832 | 3839 | 3846 | 3853 | 9 6.3 |
| 21 | 3860 | 3867 | 3874 | 3881 | 3888 | 3895 | 3902 | 3909 | 3916 | 3923 | |
| 22 | 3930 | 3937 | 3944 | 3951 | 3958 | 3965 | 3972 | 3979 | 3986 | 3993 | |
| 23 | 4000 | 4007 | 4014 | 4021 | 4028 | 4035 | 4042 | 4049 | 4056 | 4063 | |
| 24 | 4070 | 4077 | 4084 | 4091 | 4097 | 4104 | 4111 | 4118 | 4125 | 4132 | |
| 25 | 79 4139 | 4146 | 4153 | 4160 | 4167 | 4174 | 4181 | 4188 | 4195 | 4202 | |
| 26 | 4209 | 4216 | 4223 | 4230 | 4237 | 4244 | 4251 | 4258 | 4265 | 4272 | |
| 27 | 4279 | 4286 | 4293 | 4300 | 4307 | 4314 | 4321 | 4328 | 4335 | 4342 | |
| 28 | 4349 | 4356 | 4363 | 4370 | 4376 | 4383 | 4390 | 4397 | 4404 | 4411 | |
| 29 | 4418 | 4425 | 4432 | 4439 | 4446 | 4453 | 4460 | 4467 | 4474 | 4481 | |
| 6230 | 79 4488 | 4495 | 4502 | 4509 | 4516 | 4523 | 4530 | 4537 | 4544 | 4551 | 6 |
| 31 | 4558 | 4565 | 4572 | 4579 | 4586 | 4593 | 4600 | 4607 | 4614 | 4620 | 1 0.6 |
| 32 | 4627 | 4634 | 4641 | 4648 | 4655 | 4662 | 4669 | 4676 | 4683 | 4690 | 2 1.2 |
| 33 | 4697 | 4704 | 4711 | 4718 | 4725 | 4732 | 4739 | 4746 | 4753 | 4760 | 3 1.8 |
| 34 | 4767 | 4774 | 4781 | 4788 | 4795 | 4802 | 4809 | 4816 | 4823 | 4829 | 4 2.4 |
| 35 | 79 4836 | 4843 | 4850 | 4857 | 4864 | 4871 | 4878 | 4885 | 4892 | 4899 | 5 3.0 |
| 36 | 4906 | 4913 | 4920 | 4927 | 4934 | 4941 | 4948 | 4955 | 4962 | 4969 | 6 3.6 |
| 37 | 4976 | 4983 | 4990 | 4997 | 5004 | 5011 | 5018 | 5024 | 5031 | 5038 | 7 4.2 |
| 38 | 5045 | 5052 | 5059 | 5066 | 5073 | 5080 | 5087 | 5094 | 5101 | 5108 | 8 4.8 |
| 39 | 5115 | 5122 | 5129 | 5136 | 5143 | 5150 | 5157 | 5164 | 5171 | 5178 | 9 5.4 |
| 6240 | 79 5185 | 5192 | 5199 | 5205 | 5212 | 5219 | 5226 | 5233 | 5240 | 5247 | |
| 41 | 5254 | 5261 | 5268 | 5275 | 5282 | 5289 | 5296 | 5303 | 5310 | 5317 | |
| 42 | 5324 | 5331 | 5338 | 5345 | 5352 | 5359 | 5366 | 5372 | 5379 | 5386 | |
| 43 | 5393 | 5400 | 5407 | 5414 | 5421 | 5428 | 5435 | 5442 | 5449 | 5456 | |
| 44 | 5463 | 5470 | 5477 | 5484 | 5491 | 5498 | 5505 | 5512 | 5519 | 5525 | |
| 45 | 79 5532 | 5539 | 5546 | 5553 | 5560 | 5567 | 5574 | 5581 | 5588 | 5595 | |
| 46 | 5602 | 5609 | 5616 | 5623 | 5630 | 5637 | 5644 | 5651 | 5658 | 5665 | |
| 47 | 5672 | 5678 | 5685 | 5692 | 5699 | 5706 | 5713 | 5720 | 5727 | 5734 | |
| 48 | 5741 | 5748 | 5755 | 5762 | 5769 | 5776 | 5783 | 5790 | 5797 | 5804 | |
| 49 | 5811 | 5817 | 5824 | 5831 | 5838 | 5845 | 5852 | 5859 | 5866 | 5873 | |
| 6250 | 79 5880 | 5887 | 5894 | 5901 | 5908 | 5915 | 5922 | 5929 | 5936 | 5943 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 62000" = | 17° 13' 20" | | | | 62000" = | 1° 43' 20" | S. 4,685 | 509 | T. 706 | | |
| 62100 = | 17 15 0 | | | | 6210 = | 1 43 30 | | 509 | 706 | | |
| 62200 = | 17 16 40 | | | | 6220 = | 1 43 40 | | 509 | 707 | | |
| 62300 = | 17 18 20 | | | | 6230 = | 1 43 50 | | 509 | 707 | | |
| 62400 = | 17 20 0 | | | | 6240 = | 1 44 0 | | 509 | 707 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|------|--------------|------|------|------|----------|------------|
| 6250 | 79 5880 | 5887 | 5894 | 5901 | 5908 | 5915 | 5922 | 5929 | 5936 | 5943 | |
| 51 | 5949 | 5956 | 5963 | 5970 | 5977 | 5984 | 5991 | 5998 | 6005 | 6012 | |
| 52 | 6019 | 6026 | 6033 | 6040 | 6047 | 6054 | 6061 | 6068 | 6075 | 6081 | |
| 53 | 6088 | 6095 | 6102 | 6109 | 6116 | 6123 | 6130 | 6137 | 6144 | 6151 | |
| 54 | 6158 | 6165 | 6172 | 6179 | 6186 | 6193 | 6200 | 6206 | 6213 | 6220 | |
| 55 | 79 6227 | 6234 | 6241 | 6248 | 6255 | 6262 | 6269 | 6276 | 6283 | 6290 | |
| 56 | 6297 | 6304 | 6311 | 6318 | 6325 | 6331 | 6338 | 6345 | 6352 | 6359 | |
| 57 | 6366 | 6373 | 6380 | 6387 | 6394 | 6401 | 6408 | 6415 | 6422 | 6429 | |
| 58 | 6436 | 6442 | 6449 | 6456 | 6463 | 6470 | 6477 | 6484 | 6491 | 6498 | |
| 59 | 6505 | 6512 | 6519 | 6526 | 6533 | 6540 | 6547 | 6554 | 6560 | 6567 | |
| 6260 | 79 6574 | 6581 | 6588 | 6595 | 6602 | 6609 | 6616 | 6623 | 6630 | 6637 | |
| 61 | 6644 | 6651 | 6658 | 6665 | 6671 | 6678 | 6685 | 6692 | 6699 | 6706 | 7 |
| 62 | 6713 | 6720 | 6727 | 6734 | 6741 | 6748 | 6755 | 6762 | 6769 | 6775 | 1 0.7 |
| 63 | 6782 | 6789 | 6796 | 6803 | 6810 | 6817 | 6824 | 6831 | 6838 | 6845 | 2 1.4 |
| 64 | 6852 | 6859 | 6866 | 6873 | 6879 | 6886 | 6893 | 6900 | 6907 | 6914 | 3 2.1 |
| 65 | 79 6921 | 6928 | 6935 | 6942 | 6949 | 6956 | 6963 | 6970 | 6977 | 6983 | 4 2.8 |
| 66 | 6990 | 6997 | 7004 | 7011 | 7018 | 7025 | 7032 | 7039 | 7046 | 7053 | 5 3.5 |
| 67 | 7060 | 7067 | 7074 | 7080 | 7087 | 7094 | 7101 | 7108 | 7115 | 7122 | 6 4.2 |
| 68 | 7129 | 7136 | 7143 | 7150 | 7157 | 7164 | 7171 | 7177 | 7184 | 7191 | 7 4.9 |
| 69 | 7198 | 7205 | 7212 | 7219 | 7226 | 7233 | 7240 | 7247 | 7254 | 7261 | 8 5.6 |
| 6270 | 79 7268 | 7274 | 7281 | 7288 | 7295 | 7302 | 7309 | 7316 | 7323 | 7330 | 9 6.3 |
| 71 | 7337 | 7344 | 7351 | 7358 | 7365 | 7371 | 7378 | 7385 | 7392 | 7399 | |
| 72 | 7406 | 7413 | 7420 | 7427 | 7434 | 7441 | 7448 | 7455 | 7461 | 7468 | |
| 73 | 7475 | 7482 | 7489 | 7496 | 7503 | 7510 | 7517 | 7524 | 7531 | 7538 | |
| 74 | 7545 | 7551 | 7558 | 7565 | 7572 | 7579 | 7586 | 7593 | 7600 | 7607 | |
| 75 | 79 7614 | 7621 | 7628 | 7634 | 7641 | 7648 | 7655 | 7662 | 7669 | 7676 | |
| 76 | 7683 | 7690 | 7697 | 7704 | 7711 | 7718 | 7724 | 7731 | 7738 | 7745 | |
| 77 | 7752 | 7759 | 7766 | 7773 | 7780 | 7787 | 7794 | 7801 | 7807 | 7814 | |
| 78 | 7821 | 7828 | 7835 | 7842 | 7849 | 7856 | 7863 | 7870 | 7877 | 7884 | |
| 79 | 7890 | 7897 | 7904 | 7911 | 7918 | 7925 | 7932 | 7939 | 7946 | 7953 | |
| 6280 | 79 7960 | 7967 | 7973 | 7980 | 7987 | 7994 | 8001 | 8008 | 8015 | 8022 | 6 |
| 81 | 8029 | 8036 | 8043 | 8050 | 8056 | 8063 | 8070 | 8077 | 8084 | 8091 | 1 0.6 |
| 82 | 8098 | 8105 | 8112 | 8119 | 8126 | 8132 | 8139 | 8146 | 8153 | 8160 | 2 1.2 |
| 83 | 8147 | 8154 | 8161 | 8168 | 8175 | 8182 | 8189 | 8196 | 8203 | 8210 | 3 1.8 |
| 84 | 8236 | 8243 | 8250 | 8257 | 8264 | 8271 | 8278 | 8285 | 8291 | 8298 | 4 2.4 |
| 85 | 79 8305 | 8312 | 8319 | 8326 | 8333 | 8340 | 8347 | 8354 | 8361 | 8367 | 5 3.0 |
| 86 | 8374 | 8381 | 8388 | 8395 | 8402 | 8409 | 8416 | 8423 | 8430 | 8437 | 6 3.6 |
| 87 | 8443 | 8450 | 8457 | 8464 | 8471 | 8478 | 8485 | 8492 | 8499 | 8506 | 7 4.2 |
| 88 | 8513 | 8519 | 8526 | 8533 | 8540 | 8547 | 8554 | 8561 | 8568 | 8575 | 8 4.8 |
| 89 | 8582 | 8589 | 8595 | 8602 | 8609 | 8616 | 8623 | 8630 | 8637 | 8644 | 9 5.4 |
| 6290 | 79 8651 | 8658 | 8664 | 8671 | 8678 | 8685 | 8692 | 8699 | 8706 | 8713 | |
| 91 | 8720 | 8727 | 8733 | 8740 | 8747 | 8754 | 8761 | 8768 | 8775 | 8782 | |
| 92 | 8789 | 8796 | 8803 | 8809 | 8816 | 8823 | 8830 | 8837 | 8844 | 8851 | |
| 93 | 8858 | 8865 | 8872 | 8878 | 8885 | 8892 | 8899 | 8906 | 8913 | 8920 | |
| 94 | 8927 | 8934 | 8941 | 8947 | 8954 | 8961 | 8968 | 8975 | 8982 | 8989 | |
| 95 | 79 8996 | 9003 | 9010 | 9016 | 9023 | 9030 | 9037 | 9044 | 9051 | 9058 | |
| 96 | 9065 | 9072 | 9079 | 9085 | 9092 | 9099 | 9106 | 9113 | 9120 | 9127 | |
| 97 | 9134 | 9141 | 9147 | 9154 | 9161 | 9168 | 9175 | 9182 | 9189 | 9196 | |
| 98 | 9203 | 9210 | 9216 | 9223 | 9230 | 9237 | 9244 | 9251 | 9258 | 9265 | |
| 99 | 9272 | 9279 | 9285 | 9292 | 9299 | 9306 | 9313 | 9320 | 9327 | 9334 | |
| 6300 | 79 9341 | 9347 | 9354 | 9361 | 9368 | 9375 | 9382 | 9389 | 9396 | 9403 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 62500 | = 17° 21' 40" | | | | 6250 | = 1° 44' 10" | | | | S. 4.685 | 508 T. 708 |
| 62600 | = 17 23 20 | | | | 6260 | = 1 44 20 | | | | 508 | 708 |
| 62700 | = 17 25 0 | | | | 6270 | = 1 44 30 | | | | 508 | 709 |
| 62800 | = 17 26 40 | | | | 6280 | = 1 44 40 | | | | 508 | 709 |
| 62900 | = 17 28 20 | | | | 6290 | = 1 44 50 | | | | 508 | 710 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|-------------------|------|------|--------------|------|------|--------|-----|
| 6300 | 79 9341 | 9347 | 9354 | 9361 | 9368 | 9375 | 9382 | 9389 | 9396 | 9403 | |
| 01 | 9409 | 9416 | 9423 | 9430 | 9437 | 9444 | 9451 | 9458 | 9465 | 9472 | |
| 02 | 9478 | 9485 | 9492 | 9499 | 9506 | 9513 | 9520 | 9527 | 9534 | 9540 | |
| 03 | 9547 | 9554 | 9561 | 9568 | 9575 | 9582 | 9589 | 9596 | 9602 | 9609 | |
| 04 | 9616 | 9623 | 9630 | 9637 | 9644 | 9651 | 9658 | 9664 | 9671 | 9678 | |
| 05 | 79 9685 | 9692 | 9699 | 9706 | 9713 | 9720 | 9726 | 9733 | 9740 | 9747 | |
| 06 | 9754 | 9761 | 9768 | 9775 | 9782 | 9788 | 9795 | 9802 | 9809 | 9816 | |
| 07 | 9823 | 9830 | 9837 | 9843 | 9850 | 9857 | 9864 | 9871 | 9878 | 9885 | |
| 08 | 9892 | 9899 | 9905 | 9912 | 9919 | 9926 | 9933 | 9940 | 9947 | 9954 | |
| 09 | 9961 | 9967 | 9974 | 9981 | 9988 | 9995 | 0002 | 0009 | 0016 | 0022 | |
| 6310 | 80 0029 | 0036 | 0043 | 0050 | 0057 | 0064 | 0071 | 0078 | 0084 | 0091 | |
| 11 | 0098 | 0105 | 0112 | 0119 | 0126 | 0133 | 0139 | 0146 | 0153 | 0160 | 7 |
| 12 | 0167 | 0174 | 0181 | 0188 | 0195 | 0201 | 0208 | 0215 | 0222 | 0229 | 1 |
| 13 | 0236 | 0243 | 0250 | 0256 | 0263 | 0270 | 0277 | 0284 | 0291 | 0298 | 2 |
| 14 | 0305 | 0311 | 0318 | 0325 | 0332 | 0339 | 0346 | 0353 | 0360 | 0366 | 3 |
| 15 | 80 0373 | 0380 | 0387 | 0394 | 0401 | 0408 | 0415 | 0421 | 0428 | 0435 | 4 |
| 16 | 0442 | 0449 | 0456 | 0463 | 0470 | 0477 | 0483 | 0490 | 0497 | 0504 | 5 |
| 17 | 0511 | 0518 | 0525 | 0532 | 0538 | 0545 | 0552 | 0559 | 0566 | 0573 | 6 |
| 18 | 0580 | 0586 | 0593 | 0600 | 0607 | 0614 | 0621 | 0628 | 0635 | 0641 | 7 |
| 19 | 0648 | 0655 | 0662 | 0669 | 0676 | 0683 | 0690 | 0696 | 0703 | 0710 | 8 |
| 6320 | 80 0717 | 0724 | 0731 | 0738 | 0745 | 0751 | 0758 | 0765 | 0772 | 0779 | 9 |
| 21 | 0786 | 0793 | 0800 | 0806 | 0813 | 0820 | 0827 | 0834 | 0841 | 0848 | |
| 22 | 0854 | 0861 | 0868 | 0875 | 0882 | 0889 | 0896 | 0903 | 0909 | 0916 | |
| 23 | 0923 | 0930 | 0937 | 0944 | 0951 | 0958 | 0964 | 0971 | 0978 | 0985 | |
| 24 | 0992 | 0999 | 1006 | 1012 | 1019 | 1026 | 1033 | 1040 | 1047 | 1054 | |
| 25 | 80 1061 | 1067 | 1074 | 1081 | 1088 | 1095 | 1102 | 1109 | 1115 | 1122 | |
| 26 | 1129 | 1136 | 1143 | 1150 | 1157 | 1164 | 1170 | 1177 | 1184 | 1191 | |
| 27 | 1198 | 1205 | 1212 | 1218 | 1225 | 1232 | 1239 | 1246 | 1253 | 1260 | |
| 28 | 1266 | 1273 | 1280 | 1287 | 1294 | 1301 | 1308 | 1315 | 1321 | 1328 | |
| 29 | 1335 | 1342 | 1349 | 1356 | 1363 | 1369 | 1376 | 1383 | 1390 | 1397 | |
| 6330 | 80 1404 | 1411 | 1417 | 1424 | 1431 | 1438 | 1445 | 1452 | 1459 | 1465 | 6 |
| 31 | 1472 | 1479 | 1486 | 1493 | 1500 | 1507 | 1513 | 1520 | 1527 | 1534 | 1 |
| 32 | 1541 | 1548 | 1555 | 1561 | 1568 | 1575 | 1582 | 1589 | 1596 | 1603 | 2 |
| 33 | 1609 | 1616 | 1623 | 1630 | 1637 | 1644 | 1651 | 1657 | 1664 | 1671 | 3 |
| 34 | 1678 | 1685 | 1692 | 1699 | 1705 | 1712 | 1719 | 1726 | 1733 | 1740 | 4 |
| 35 | 80 1747 | 1753 | 1760 | 1767 | 1774 | 1781 | 1788 | 1795 | 1801 | 1808 | 5 |
| 36 | 1815 | 1822 | 1829 | 1836 | 1843 | 1849 | 1856 | 1863 | 1870 | 1877 | 6 |
| 37 | 1884 | 1891 | 1897 | 1904 | 1911 | 1918 | 1925 | 1932 | 1939 | 1945 | 7 |
| 38 | 1952 | 1959 | 1966 | 1973 | 1980 | 1986 | 1993 | 2000 | 2007 | 2014 | 8 |
| 39 | 2021 | 2028 | 2034 | 2041 | 2048 | 2055 | 2062 | 2069 | 2076 | 2082 | 9 |
| 6340 | 80 2089 | 2096 | 2103 | 2110 | 2117 | 2124 | 2130 | 2137 | 2144 | 2151 | |
| 41 | 2158 | 2165 | 2171 | 2178 | 2185 | 2192 | 2199 | 2206 | 2213 | 2219 | |
| 42 | 2226 | 2233 | 2240 | 2247 | 2254 | 2260 | 2267 | 2274 | 2281 | 2288 | |
| 43 | 2295 | 2302 | 2308 | 2315 | 2322 | 2329 | 2336 | 2343 | 2349 | 2356 | |
| 44 | 2363 | 2370 | 2377 | 2384 | 2391 | 2397 | 2404 | 2411 | 2418 | 2425 | |
| 45 | 80 2432 | 2438 | 2445 | 2452 | 2459 | 2466 | 2473 | 2480 | 2486 | 2493 | |
| 46 | 2500 | 2507 | 2514 | 2521 | 2527 | 2534 | 2541 | 2548 | 2555 | 2562 | |
| 47 | 2568 | 2575 | 2582 | 2589 | 2596 | 2603 | 2610 | 2616 | 2623 | 2630 | |
| 48 | 2637 | 2644 | 2651 | 2657 | 2664 | 2671 | 2678 | 2685 | 2692 | 2698 | |
| 49 | 2705 | 2712 | 2719 | 2726 | 2733 | 2740 | 2746 | 2753 | 2760 | 2767 | |
| 6350 | 80 2774 | 2781 | 2787 | 2794 | 2801 | 2808 | 2815 | 2822 | 2828 | 2835 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 6300" | = 17° 30' 0" | | | 6300' = 1° 45' 0" | | | S. 4,685 507 | | | T. 710 | |
| 63100 | = 17 31 40 | | | 6310 = 1 45 10 | | | 507 | | | 710 | |
| 63200 | = 17 33 20 | | | 6320 = 1 45 20 | | | 507 | | | 711 | |
| 63300 | = 17 35 0 | | | 6330 = 1 45 30 | | | 507 | | | 711 | |
| 63400 | = 17 36 40 | | | 6340 = 1 45 40 | | | 506 | | | 712 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|------|--------------|------|------|----------|------|--------|
| 6350 | 80 2774 | 2781 | 2787 | 2794 | 2801 | 2808 | 2815 | 2822 | 2828 | 2835 | |
| 51 | 2842 | 2849 | 2856 | 2863 | 2869 | 2876 | 2883 | 2890 | 2897 | 2904 | |
| 52 | 2910 | 2917 | 2924 | 2931 | 2938 | 2945 | 2952 | 2958 | 2965 | 2972 | |
| 53 | 2979 | 2986 | 2993 | 2999 | 3006 | 3013 | 3020 | 3027 | 3034 | 3040 | |
| 54 | 3047 | 3054 | 3061 | 3068 | 3075 | 3081 | 3088 | 3095 | 3102 | 3109 | |
| 55 | 80 3116 | 3122 | 3129 | 3136 | 3143 | 3150 | 3157 | 3163 | 3170 | 3177 | |
| 56 | 3184 | 3191 | 3198 | 3204 | 3211 | 3218 | 3225 | 3232 | 3239 | 3245 | |
| 57 | 3252 | 3259 | 3266 | 3273 | 3280 | 3286 | 3293 | 3300 | 3307 | 3314 | |
| 58 | 3321 | 3327 | 3334 | 3341 | 3348 | 3355 | 3362 | 3368 | 3375 | 3382 | |
| 59 | 3389 | 3396 | 3402 | 3409 | 3416 | 3423 | 3430 | 3437 | 3443 | 3450 | |
| 6360 | 80 3457 | 3464 | 3471 | 3478 | 3484 | 3491 | 3498 | 3505 | 3512 | 3519 | |
| 61 | 3525 | 3532 | 3539 | 3546 | 3553 | 3560 | 3566 | 3573 | 3580 | 3587 | 7 |
| 62 | 3594 | 3600 | 3607 | 3614 | 3621 | 3628 | 3635 | 3641 | 3648 | 3655 | 1 0.7 |
| 63 | 3662 | 3669 | 3676 | 3682 | 3689 | 3696 | 3703 | 3710 | 3717 | 3723 | 2 1.4 |
| 64 | 3730 | 3737 | 3744 | 3751 | 3757 | 3764 | 3771 | 3778 | 3785 | 3792 | 3 2.1 |
| 65 | 80 3798 | 3805 | 3812 | 3819 | 3826 | 3833 | 3839 | 3846 | 3853 | 3860 | 4 2.8 |
| 66 | 3867 | 3873 | 3880 | 3887 | 3894 | 3901 | 3908 | 3914 | 3921 | 3928 | 5 3.5 |
| 67 | 3935 | 3942 | 3948 | 3955 | 3962 | 3969 | 3976 | 3983 | 3989 | 3996 | 6 4.2 |
| 68 | 4003 | 4010 | 4017 | 4024 | 4030 | 4037 | 4044 | 4051 | 4058 | 4064 | 7 4.9 |
| 69 | 4071 | 4078 | 4085 | 4092 | 4099 | 4105 | 4112 | 4119 | 4126 | 4133 | 8 5.6 |
| 6370 | 80 4139 | 4146 | 4153 | 4160 | 4167 | 4174 | 4180 | 4187 | 4194 | 4201 | 9 6.3 |
| 71 | 4208 | 4214 | 4221 | 4228 | 4235 | 4242 | 4249 | 4255 | 4262 | 4269 | |
| 72 | 4276 | 4283 | 4289 | 4296 | 4303 | 4310 | 4317 | 4323 | 4330 | 4337 | |
| 73 | 4344 | 4351 | 4358 | 4364 | 4371 | 4378 | 4385 | 4392 | 4398 | 4405 | |
| 74 | 4412 | 4419 | 4426 | 4432 | 4439 | 4446 | 4453 | 4460 | 4467 | 4473 | |
| 75 | 80 4480 | 4487 | 4494 | 4501 | 4507 | 4514 | 4521 | 4528 | 4535 | 4541 | |
| 76 | 4548 | 4555 | 4562 | 4569 | 4576 | 4582 | 4589 | 4596 | 4603 | 4610 | |
| 77 | 4616 | 4623 | 4630 | 4637 | 4644 | 4650 | 4657 | 4664 | 4671 | 4678 | |
| 78 | 4685 | 4691 | 4698 | 4705 | 4712 | 4719 | 4725 | 4732 | 4739 | 4746 | |
| 79 | 4753 | 4759 | 4766 | 4773 | 4780 | 4787 | 4793 | 4800 | 4807 | 4814 | |
| 6380 | 80 4821 | 4827 | 4834 | 4841 | 4848 | 4855 | 4862 | 4868 | 4875 | 4882 | 6 |
| 81 | 4889 | 4896 | 4902 | 4909 | 4916 | 4923 | 4930 | 4936 | 4943 | 4950 | 1 0.6 |
| 82 | 4957 | 4964 | 4970 | 4977 | 4984 | 4991 | 4998 | 5004 | 5011 | 5018 | 2 1.2 |
| 83 | 5025 | 5032 | 5038 | 5045 | 5052 | 5059 | 5066 | 5072 | 5079 | 5086 | 3 1.8 |
| 84 | 5093 | 5100 | 5106 | 5113 | 5120 | 5127 | 5134 | 5140 | 5147 | 5154 | 4 2.4 |
| 85 | 80 5161 | 5168 | 5175 | 5181 | 5188 | 5195 | 5202 | 5209 | 5215 | 5222 | 5 3.0 |
| 86 | 5229 | 5236 | 5243 | 5249 | 5256 | 5263 | 5270 | 5277 | 5283 | 5290 | 6 3.6 |
| 87 | 5297 | 5304 | 5311 | 5317 | 5324 | 5331 | 5338 | 5345 | 5351 | 5358 | 7 4.2 |
| 88 | 5365 | 5372 | 5379 | 5385 | 5392 | 5399 | 5406 | 5412 | 5419 | 5426 | 8 4.8 |
| 89 | 5433 | 5440 | 5446 | 5453 | 5460 | 5467 | 5474 | 5480 | 5487 | 5494 | 9 5.4 |
| 6390 | 80 5501 | 5508 | 5514 | 5521 | 5528 | 5535 | 5542 | 5548 | 5555 | 5562 | |
| 91 | 5569 | 5576 | 5582 | 5589 | 5596 | 5603 | 5610 | 5616 | 5623 | 5630 | |
| 92 | 5637 | 5644 | 5650 | 5657 | 5664 | 5671 | 5678 | 5684 | 5691 | 5698 | |
| 93 | 5705 | 5711 | 5718 | 5725 | 5732 | 5739 | 5745 | 5752 | 5759 | 5766 | |
| 94 | 5773 | 5779 | 5786 | 5793 | 5800 | 5807 | 5813 | 5820 | 5827 | 5834 | |
| 95 | 80 5841 | 5847 | 5854 | 5861 | 5868 | 5875 | 5881 | 5888 | 5895 | 5902 | |
| 96 | 5908 | 5915 | 5922 | 5929 | 5936 | 5942 | 5949 | 5956 | 5963 | 5970 | |
| 97 | 5976 | 5983 | 5990 | 5997 | 6004 | 6010 | 6017 | 6024 | 6031 | 6037 | |
| 98 | 6044 | 6051 | 6058 | 6065 | 6071 | 6078 | 6085 | 6092 | 6099 | 6105 | |
| 99 | 6112 | 6119 | 6126 | 6132 | 6139 | 6146 | 6153 | 6160 | 6166 | 6173 | |
| 6400 | 80 6180 | 6187 | 6194 | 6200 | 6207 | 6214 | 6221 | 6227 | 6234 | 6241 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 63500 | = 17° 38' 20" | | | | 6350 | = 1° 45' 50" | | | S. 4,685 | 506 | T. 712 |
| 63600 | = 17 40 0 | | | | 6360 | = 1 46 0 | | | | 506 | 713 |
| 63700 | = 17 41 40 | | | | 6370 | = 1 46 10 | | | | 506 | 713 |
| 63800 | = 17 43 20 | | | | 6380 | = 1 46 20 | | | | 506 | 713 |
| 63900 | = 17 45 0 | | | | 6390 | = 1 46 30 | | | | 505 | 714 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|----------------------|------|------|----------|------|--------|-------|
| 6400 | 80 6180 | 6187 | 6194 | 6200 | 6207 | 6214 | 6221 | 6227 | 6234 | 6241 | |
| 01 | 6248 | 6255 | 6261 | 6268 | 6275 | 6282 | 6289 | 6295 | 6302 | 6309 | |
| 02 | 6316 | 6322 | 6329 | 6336 | 6343 | 6350 | 6356 | 6363 | 6370 | 6377 | |
| 03 | 6384 | 6390 | 6397 | 6404 | 6411 | 6417 | 6424 | 6431 | 6438 | 6445 | |
| 04 | 6451 | 6458 | 6465 | 6472 | 6478 | 6485 | 6492 | 6499 | 6506 | 6512 | |
| 05 | 80 6519 | 6526 | 6533 | 6539 | 6546 | 6553 | 6560 | 6567 | 6573 | 6580 | |
| 06 | 6587 | 6594 | 6600 | 6607 | 6614 | 6621 | 6628 | 6634 | 6641 | 6648 | |
| 07 | 6655 | 6662 | 6668 | 6675 | 6682 | 6689 | 6695 | 6702 | 6709 | 6716 | |
| 08 | 6723 | 6729 | 6736 | 6743 | 6750 | 6756 | 6763 | 6770 | 6777 | 6783 | |
| 09 | 6790 | 6797 | 6804 | 6811 | 6817 | 6824 | 6831 | 6838 | 6844 | 6851 | |
| 6410 | 80 6858 | 6865 | 6872 | 6878 | 6885 | 6892 | 6899 | 6905 | 6912 | 6919 | |
| 11 | 6926 | 6933 | 6939 | 6946 | 6953 | 6960 | 6966 | 6973 | 6980 | 6987 | |
| 12 | 6994 | 7000 | 7007 | 7014 | 7021 | 7027 | 7034 | 7041 | 7048 | 7054 | 1 0.7 |
| 13 | 7061 | 7068 | 7075 | 7082 | 7088 | 7095 | 7102 | 7109 | 7115 | 7122 | 2 1.4 |
| 14 | 7129 | 7136 | 7142 | 7149 | 7156 | 7163 | 7170 | 7176 | 7183 | 7190 | 3 2.1 |
| 15 | 80 7197 | 7203 | 7210 | 7217 | 7224 | 7231 | 7237 | 7244 | 7251 | 7258 | 4 2.8 |
| 16 | 7264 | 7271 | 7278 | 7285 | 7291 | 7298 | 7305 | 7312 | 7319 | 7325 | 5 3.5 |
| 17 | 7332 | 7339 | 7346 | 7352 | 7359 | 7366 | 7373 | 7379 | 7386 | 7393 | 6 4.2 |
| 18 | 7400 | 7406 | 7413 | 7420 | 7427 | 7434 | 7440 | 7447 | 7454 | 7461 | 7 4.9 |
| 19 | 7467 | 7474 | 7481 | 7488 | 7494 | 7501 | 7508 | 7515 | 7521 | 7528 | 8 5.6 |
| 6420 | 80 7535 | 7542 | 7549 | 7555 | 7562 | 7569 | 7576 | 7582 | 7589 | 7596 | 9 6.3 |
| 21 | 7603 | 7609 | 7616 | 7623 | 7630 | 7636 | 7643 | 7650 | 7657 | 7664 | |
| 22 | 7670 | 7677 | 7684 | 7691 | 7697 | 7704 | 7711 | 7718 | 7724 | 7731 | |
| 23 | 7738 | 7745 | 7751 | 7758 | 7765 | 7772 | 7778 | 7785 | 7792 | 7799 | |
| 24 | 7806 | 7812 | 7819 | 7826 | 7833 | 7839 | 7846 | 7853 | 7860 | 7866 | |
| 25 | 80 7873 | 7880 | 7887 | 7893 | 7900 | 7907 | 7914 | 7920 | 7927 | 7934 | |
| 26 | 7941 | 7947 | 7954 | 7961 | 7968 | 7975 | 7981 | 7988 | 7995 | 8002 | |
| 27 | 8008 | 8015 | 8022 | 8029 | 8035 | 8042 | 8049 | 8056 | 8062 | 8069 | |
| 28 | 8076 | 8083 | 8089 | 8096 | 8103 | 8110 | 8116 | 8123 | 8130 | 8137 | |
| 29 | 8143 | 8150 | 8157 | 8164 | 8170 | 8177 | 8184 | 8191 | 8197 | 8204 | |
| 6430 | 80 8211 | 8218 | 8224 | 8231 | 8238 | 8245 | 8251 | 8258 | 8265 | 8272 | |
| 31 | 8279 | 8285 | 8292 | 8299 | 8306 | 8312 | 8319 | 8326 | 8333 | 8339 | 6 |
| 32 | 8346 | 8353 | 8360 | 8366 | 8373 | 8380 | 8387 | 8393 | 8400 | 8407 | 1 0.6 |
| 33 | 8414 | 8420 | 8427 | 8434 | 8441 | 8447 | 8454 | 8461 | 8468 | 8474 | 2 1.2 |
| 34 | 8481 | 8488 | 8495 | 8501 | 8508 | 8515 | 8522 | 8528 | 8535 | 8542 | 3 1.8 |
| 35 | 80 8549 | 8555 | 8562 | 8569 | 8576 | 8582 | 8589 | 8596 | 8603 | 8609 | 4 2.4 |
| 36 | 8616 | 8623 | 8630 | 8636 | 8643 | 8650 | 8657 | 8663 | 8670 | 8677 | 5 3.0 |
| 37 | 8684 | 8690 | 8697 | 8704 | 8710 | 8717 | 8724 | 8731 | 8737 | 8744 | 6 3.6 |
| 38 | 8751 | 8758 | 8764 | 8771 | 8778 | 8785 | 8791 | 8798 | 8805 | 8812 | 7 4.2 |
| 39 | 8818 | 8825 | 8832 | 8839 | 8845 | 8852 | 8859 | 8866 | 8872 | 8879 | 8 4.8 |
| 6440 | 80 8886 | 8893 | 8899 | 8906 | 8913 | 8920 | 8926 | 8933 | 8940 | 8947 | 9 5.4 |
| 41 | 8953 | 8960 | 8967 | 8974 | 8980 | 8987 | 8994 | 9000 | 9007 | 9014 | |
| 42 | 9021 | 9027 | 9034 | 9041 | 9048 | 9054 | 9061 | 9068 | 9075 | 9081 | |
| 43 | 9088 | 9095 | 9102 | 9108 | 9115 | 9122 | 9129 | 9135 | 9142 | 9149 | |
| 44 | 9156 | 9162 | 9169 | 9176 | 9182 | 9189 | 9196 | 9203 | 9209 | 9216 | |
| 45 | 80 9223 | 9230 | 9236 | 9243 | 9250 | 9257 | 9263 | 9270 | 9277 | 9284 | |
| 46 | 9290 | 9297 | 9304 | 9311 | 9317 | 9324 | 9331 | 9337 | 9344 | 9351 | |
| 47 | 9358 | 9364 | 9371 | 9378 | 9385 | 9391 | 9398 | 9405 | 9412 | 9418 | |
| 48 | 9425 | 9432 | 9438 | 9445 | 9452 | 9459 | 9465 | 9472 | 9479 | 9486 | |
| 49 | 9492 | 9499 | 9506 | 9513 | 9519 | 9526 | 9533 | 9540 | 9546 | 9553 | |
| 6450 | 80 9560 | 9566 | 9573 | 9580 | 9587 | 9593 | 9600 | 9607 | 9614 | 9620 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 64000" = 17° 46' 40" | | | | 64000" = 17° 46' 40" | | | S. 4.685 | 505 | T. 714 | |
| | 64100 = 17 48 20 | | | | 64100 = 17 48 20 | | | | 505 | 715 | |
| | 64200 = 17 50 0 | | | | 64200 = 17 50 0 | | | | 505 | 715 | |
| | 64300 = 17 51 40 | | | | 64300 = 17 51 40 | | | | 505 | 716 | |
| | 64400 = 17 53 20 | | | | 64400 = 17 53 20 | | | | 504 | 716 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|------|------|------|------|------|------|-------|
| 6450 | 80 9560 | 9566 | 9573 | 9580 | 9587 | 9593 | 9600 | 9607 | 9614 | 9620 | |
| 51 | 9627 | 9634 | 9641 | 9647 | 9654 | 9661 | 9667 | 9674 | 9681 | 9688 | |
| 52 | 9694 | 9701 | 9708 | 9715 | 9721 | 9728 | 9735 | 9741 | 9748 | 9755 | |
| 53 | 9762 | 9768 | 9775 | 9782 | 9789 | 9795 | 9802 | 9809 | 9816 | 9822 | |
| 54 | 9829 | 9836 | 9842 | 9849 | 9856 | 9863 | 9869 | 9876 | 9883 | 9890 | |
| 55 | 80 9896 | 9903 | 9910 | 9916 | 9923 | 9930 | 9937 | 9943 | 9950 | 9957 | |
| 56 | 9964 | 9970 | 9977 | 9984 | 9990 | 9997 | 0004 | 0011 | 0017 | 0024 | |
| 57 | 81 0031 | 0038 | 0044 | 0051 | 0058 | 0064 | 0071 | 0078 | 0085 | 0091 | |
| 58 | 0098 | 0105 | 0111 | 0118 | 0125 | 0132 | 0138 | 0145 | 0152 | 0159 | |
| 59 | 0165 | 0172 | 0179 | 0185 | 0192 | 0199 | 0206 | 0212 | 0219 | 0226 | |
| 6460 | 81 0233 | 0239 | 0246 | 0253 | 0259 | 0266 | 0273 | 0280 | 0286 | 0293 | |
| 61 | 0300 | 0306 | 0313 | 0320 | 0327 | 0333 | 0340 | 0347 | 0354 | 0360 | |
| 62 | 0367 | 0374 | 0380 | 0387 | 0394 | 0401 | 0407 | 0414 | 0421 | 0427 | 7 0.7 |
| 63 | 0434 | 0441 | 0448 | 0454 | 0461 | 0468 | 0474 | 0481 | 0488 | 0495 | 2 1.4 |
| 64 | 0501 | 0508 | 0515 | 0522 | 0528 | 0535 | 0542 | 0548 | 0555 | 0562 | 3 2.1 |
| 65 | 81 0569 | 0575 | 0582 | 0589 | 0595 | 0602 | 0609 | 0616 | 0622 | 0629 | 4 2.8 |
| 66 | 0636 | 0642 | 0649 | 0656 | 0663 | 0669 | 0676 | 0683 | 0689 | 0696 | 5 3.5 |
| 67 | 0703 | 0710 | 0716 | 0723 | 0730 | 0736 | 0743 | 0750 | 0757 | 0763 | 6 4.2 |
| 68 | 0770 | 0777 | 0783 | 0790 | 0797 | 0804 | 0810 | 0817 | 0824 | 0830 | 7 4.9 |
| 69 | 0837 | 0844 | 0851 | 0857 | 0864 | 0871 | 0877 | 0884 | 0891 | 0898 | 8 5.6 |
| 6470 | 81 0904 | 0911 | 0918 | 0924 | 0931 | 0938 | 0945 | 0951 | 0958 | 0965 | 9 6.3 |
| 71 | 0971 | 0978 | 0985 | 0992 | 0998 | 1005 | 1012 | 1018 | 1025 | 1032 | |
| 72 | 1039 | 1045 | 1052 | 1059 | 1065 | 1072 | 1079 | 1085 | 1092 | 1099 | |
| 73 | 1106 | 1112 | 1119 | 1126 | 1132 | 1139 | 1146 | 1153 | 1159 | 1166 | |
| 74 | 1173 | 1179 | 1186 | 1193 | 1200 | 1206 | 1213 | 1220 | 1226 | 1233 | |
| 75 | 81 1240 | 1246 | 1253 | 1260 | 1267 | 1273 | 1280 | 1287 | 1293 | 1300 | |
| 76 | 1307 | 1314 | 1320 | 1327 | 1334 | 1340 | 1347 | 1354 | 1360 | 1367 | |
| 77 | 1374 | 1381 | 1387 | 1394 | 1401 | 1407 | 1414 | 1421 | 1428 | 1434 | |
| 78 | 1441 | 1448 | 1454 | 1461 | 1468 | 1474 | 1481 | 1488 | 1495 | 1501 | |
| 79 | 1508 | 1515 | 1521 | 1528 | 1535 | 1541 | 1548 | 1555 | 1562 | 1568 | |
| 6480 | 81 1575 | 1582 | 1588 | 1595 | 1602 | 1609 | 1615 | 1622 | 1629 | 1635 | |
| 81 | 1642 | 1649 | 1655 | 1662 | 1669 | 1676 | 1682 | 1689 | 1696 | 1702 | 6 0.6 |
| 82 | 1709 | 1716 | 1722 | 1729 | 1736 | 1743 | 1749 | 1756 | 1763 | 1769 | 1 1.2 |
| 83 | 1776 | 1783 | 1789 | 1796 | 1803 | 1810 | 1816 | 1823 | 1830 | 1836 | 2 1.8 |
| 84 | 1843 | 1850 | 1856 | 1863 | 1870 | 1876 | 1883 | 1890 | 1897 | 1903 | 3 2.4 |
| 85 | 81 1910 | 1917 | 1923 | 1930 | 1937 | 1943 | 1950 | 1957 | 1964 | 1970 | 4 3.0 |
| 86 | 1977 | 1984 | 1990 | 1997 | 2004 | 2010 | 2017 | 2024 | 2031 | 2037 | 5 3.6 |
| 87 | 2044 | 2051 | 2057 | 2064 | 2071 | 2077 | 2084 | 2091 | 2097 | 2104 | 7 4.2 |
| 88 | 2111 | 2118 | 2124 | 2131 | 2138 | 2144 | 2151 | 2158 | 2164 | 2171 | 8 4.8 |
| 89 | 2178 | 2184 | 2191 | 2198 | 2205 | 2211 | 2218 | 2225 | 2231 | 2238 | 9 5.4 |
| 6490 | 81 2245 | 2251 | 2258 | 2265 | 2271 | 2278 | 2285 | 2292 | 2298 | 2305 | |
| 91 | 2312 | 2318 | 2325 | 2332 | 2338 | 2345 | 2352 | 2358 | 2365 | 2372 | |
| 92 | 2379 | 2385 | 2392 | 2399 | 2405 | 2412 | 2419 | 2425 | 2432 | 2439 | |
| 93 | 2445 | 2452 | 2459 | 2465 | 2472 | 2479 | 2486 | 2492 | 2499 | 2506 | |
| 94 | 2512 | 2519 | 2526 | 2532 | 2539 | 2546 | 2552 | 2559 | 2566 | 2572 | |
| 95 | 81 2579 | 2586 | 2593 | 2599 | 2606 | 2613 | 2619 | 2626 | 2633 | 2639 | |
| 96 | 2646 | 2653 | 2659 | 2666 | 2673 | 2679 | 2686 | 2693 | 2699 | 2706 | |
| 97 | 2713 | 2720 | 2726 | 2733 | 2740 | 2746 | 2753 | 2760 | 2766 | 2773 | |
| 98 | 2780 | 2786 | 2793 | 2800 | 2806 | 2813 | 2820 | 2826 | 2833 | 2840 | |
| 99 | 2847 | 2853 | 2860 | 2867 | 2873 | 2880 | 2887 | 2893 | 2900 | 2907 | |
| 6500 | 81 2913 | 2920 | 2927 | 2933 | 2940 | 2947 | 2953 | 2960 | 2967 | 2973 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 64500" | 17° 55' 0" | | | | | | | | | | |
| 64600" | 17 56 40 | | | | | | | | | | |
| 64700" | 17 58 20 | | | | | | | | | | |
| 64800" | 18 0 0 | | | | | | | | | | |
| 64900" | 18 1 40 | | | | | | | | | | |
| 64500" | 17° 55' 0" | | | | | | | | | | |
| 64600" | 17 56 40 | | | | | | | | | | |
| 64700" | 17 58 20 | | | | | | | | | | |
| 64800" | 18 0 0 | | | | | | | | | | |
| 64900" | 18 1 40 | | | | | | | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------|------|------|--------|------|------|------|----------|------|--------|-------|
| 6500 | 81 2913 | 2920 | 2927 | 2933 | 2940 | 2947 | 2953 | 2960 | 2967 | 2973 | |
| 01 | 2980 | 2987 | 2994 | 3000 | 3007 | 3014 | 3020 | 3027 | 3034 | 3040 | |
| 02 | 3047 | 3054 | 3060 | 3067 | 3074 | 3080 | 3087 | 3094 | 3100 | 3107 | |
| 03 | 3114 | 3120 | 3127 | 3134 | 3140 | 3147 | 3154 | 3161 | 3167 | 3174 | |
| 04 | 3181 | 3187 | 3194 | 3201 | 3207 | 3214 | 3221 | 3227 | 3234 | 3241 | |
| 05 | 81 3247 | 3254 | 3261 | 3267 | 3274 | 3281 | 3287 | 3294 | 3301 | 3307 | |
| 06 | 3314 | 3321 | 3327 | 3334 | 3341 | 3347 | 3354 | 3361 | 3367 | 3374 | |
| 07 | 3381 | 3387 | 3394 | 3401 | 3408 | 3414 | 3421 | 3428 | 3434 | 3441 | |
| 08 | 3448 | 3454 | 3461 | 3468 | 3474 | 3481 | 3488 | 3494 | 3501 | 3508 | |
| 09 | 3514 | 3521 | 3528 | 3534 | 3541 | 3548 | 3554 | 3561 | 3568 | 3574 | |
| 6510 | 81 3581 | 3588 | 3594 | 3601 | 3608 | 3614 | 3621 | 3628 | 3634 | 3641 | |
| 11 | 3648 | 3654 | 3661 | 3668 | 3674 | 3681 | 3688 | 3694 | 3701 | 3708 | 7 |
| 12 | 3714 | 3721 | 3728 | 3734 | 3741 | 3748 | 3754 | 3761 | 3768 | 3774 | 1 0.7 |
| 13 | 3781 | 3788 | 3794 | 3801 | 3808 | 3814 | 3821 | 3828 | 3834 | 3841 | 2 1.4 |
| 14 | 3848 | 3854 | 3861 | 3868 | 3874 | 3881 | 3888 | 3894 | 3901 | 3908 | 3 2.1 |
| 15 | 81 3914 | 3921 | 3928 | 3934 | 3941 | 3948 | 3954 | 3961 | 3968 | 3974 | 4 2.8 |
| 16 | 3981 | 3988 | 3994 | 4001 | 4008 | 4014 | 4021 | 4028 | 4034 | 4041 | 5 3.5 |
| 17 | 4048 | 4054 | 4061 | 4068 | 4074 | 4081 | 4088 | 4094 | 4101 | 4108 | 6 4.2 |
| 18 | 4114 | 4121 | 4128 | 4134 | 4141 | 4148 | 4154 | 4161 | 4168 | 4174 | 7 4.9 |
| 19 | 4181 | 4188 | 4194 | 4201 | 4208 | 4214 | 4221 | 4228 | 4234 | 4241 | 8 5.6 |
| 6520 | 81 4248 | 4254 | 4261 | 4268 | 4274 | 4281 | 4288 | 4294 | 4301 | 4308 | 9 6.3 |
| 21 | 4314 | 4321 | 4328 | 4334 | 4341 | 4347 | 4354 | 4361 | 4367 | 4374 | |
| 22 | 4381 | 4387 | 4394 | 4401 | 4407 | 4414 | 4421 | 4427 | 4434 | 4441 | |
| 23 | 4447 | 4454 | 4461 | 4467 | 4474 | 4481 | 4487 | 4494 | 4501 | 4507 | |
| 24 | 81 4514 | 4521 | 4527 | 4534 | 4541 | 4547 | 4554 | 4561 | 4567 | 4574 | |
| 25 | 4581 | 4587 | 4594 | 4600 | 4607 | 4614 | 4620 | 4627 | 4634 | 4640 | |
| 26 | 4647 | 4654 | 4660 | 4667 | 4674 | 4680 | 4687 | 4694 | 4700 | 4707 | |
| 27 | 4714 | 4720 | 4727 | 4734 | 4741 | 4747 | 4754 | 4760 | 4767 | 4773 | |
| 28 | 4780 | 4787 | 4793 | 4800 | 4807 | 4813 | 4820 | 4827 | 4833 | 4840 | |
| 29 | 4847 | 4853 | 4860 | 4867 | 4873 | 4880 | 4887 | 4893 | 4900 | 4907 | |
| 6530 | 81 4913 | 4920 | 4926 | 4933 | 4940 | 4946 | 4953 | 4960 | 4966 | 4973 | 6 |
| 31 | 4980 | 4986 | 4993 | 5000 | 5006 | 5013 | 5020 | 5026 | 5033 | 5040 | 1 0.6 |
| 32 | 5046 | 5053 | 5059 | 5066 | 5073 | 5079 | 5086 | 5093 | 5099 | 5106 | 2 1.2 |
| 33 | 5113 | 5119 | 5126 | 5133 | 5139 | 5146 | 5153 | 5159 | 5166 | 5172 | 3 1.8 |
| 34 | 5179 | 5186 | 5192 | 5199 | 5206 | 5212 | 5219 | 5226 | 5232 | 5239 | 4 2.4 |
| 35 | 81 5246 | 5252 | 5259 | 5266 | 5272 | 5279 | 5285 | 5292 | 5299 | 5305 | 5 3.0 |
| 36 | 5312 | 5319 | 5325 | 5332 | 5339 | 5345 | 5352 | 5359 | 5365 | 5372 | 6 3.6 |
| 37 | 5378 | 5385 | 5392 | 5398 | 5405 | 5412 | 5418 | 5425 | 5432 | 5438 | 7 4.2 |
| 38 | 5445 | 5452 | 5458 | 5465 | 5471 | 5478 | 5485 | 5491 | 5498 | 5505 | 8 4.8 |
| 39 | 5511 | 5518 | 5525 | 5531 | 5538 | 5545 | 5551 | 5558 | 5564 | 5571 | 9 5.4 |
| 6540 | 81 5578 | 5584 | 5591 | 5598 | 5604 | 5611 | 5618 | 5624 | 5631 | 5638 | |
| 41 | 5644 | 5651 | 5657 | 5664 | 5671 | 5677 | 5684 | 5691 | 5697 | 5704 | |
| 42 | 5711 | 5717 | 5724 | 5730 | 5737 | 5744 | 5750 | 5757 | 5764 | 5770 | |
| 43 | 5777 | 5784 | 5790 | 5797 | 5803 | 5810 | 5817 | 5823 | 5830 | 5837 | |
| 44 | 5843 | 5850 | 5857 | 5863 | 5870 | 5876 | 5883 | 5890 | 5896 | 5903 | |
| 45 | 81 5910 | 5916 | 5923 | 5930 | 5936 | 5943 | 5949 | 5956 | 5963 | 5969 | |
| 46 | 5976 | 5983 | 5989 | 5996 | 6003 | 6009 | 6016 | 6022 | 6029 | 6036 | |
| 47 | 6042 | 6049 | 6056 | 6062 | 6069 | 6076 | 6082 | 6089 | 6095 | 6102 | |
| 48 | 6109 | 6115 | 6122 | 6129 | 6135 | 6142 | 6148 | 6155 | 6162 | 6168 | |
| 49 | 6175 | 6182 | 6188 | 6195 | 6202 | 6208 | 6215 | 6221 | 6228 | 6235 | |
| 6550 | 81 6241 | 6248 | 6255 | 6261 | 6268 | 6274 | 6281 | 6288 | 6294 | 6301 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 65000" | 18° | 3' | 20" | 65000" | 18° | 48' | 20" | S. 4,685 | 503 | T. 719 | |
| 65100 | 18 | 5 | 0 | 6510 | 18 | 48 | 30 | | 503 | 719 | |
| 65200 | 18 | 6 | 40 | 6520 | 18 | 48 | 40 | | 503 | 720 | |
| 65300 | 18 | 8 | 20 | 6530 | 18 | 48 | 50 | | 502 | 720 | |
| 65400 | 18 | 10 | 0 | 6540 | 18 | 49 | 0 | | 502 | 720 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|------|----------|------|--------|
| 6550 | 81 6241 | 6248 | 6255 | 6261 | 6268 | 6274 | 6281 | 6288 | 6294 | 6301 | |
| 51 | 6308 | 6314 | 6321 | 6327 | 6334 | 6341 | 6347 | 6354 | 6361 | 6367 | |
| 52 | 6374 | 6381 | 6387 | 6394 | 6400 | 6407 | 6414 | 6420 | 6427 | 6434 | |
| 53 | 6440 | 6447 | 6453 | 6460 | 6467 | 6473 | 6480 | 6487 | 6493 | 6500 | |
| 54 | 6506 | 6513 | 6520 | 6526 | 6533 | 6540 | 6546 | 6553 | 6559 | 6566 | |
| 55 | 81 6573 | 6579 | 6586 | 6593 | 6599 | 6606 | 6612 | 6619 | 6626 | 6632 | |
| 56 | 6639 | 6646 | 6652 | 6659 | 6665 | 6672 | 6679 | 6685 | 6692 | 6699 | |
| 57 | 6705 | 6712 | 6718 | 6725 | 6732 | 6738 | 6745 | 6752 | 6758 | 6765 | |
| 58 | 6771 | 6778 | 6785 | 6791 | 6798 | 6805 | 6811 | 6818 | 6824 | 6831 | |
| 59 | 6838 | 6844 | 6851 | 6857 | 6864 | 6871 | 6877 | 6884 | 6891 | 6897 | |
| 6560 | 81 6904 | 6910 | 6917 | 6924 | 6930 | 6937 | 6944 | 6950 | 6957 | 6963 | |
| 61 | 6970 | 6977 | 6983 | 6990 | 6997 | 7003 | 7010 | 7016 | 7023 | 7030 | 1 0.7 |
| 62 | 7036 | 7043 | 7049 | 7056 | 7063 | 7069 | 7076 | 7083 | 7089 | 7096 | 2 1.4 |
| 63 | 7102 | 7109 | 7116 | 7122 | 7129 | 7135 | 7142 | 7149 | 7155 | 7162 | 3 2.1 |
| 64 | 7169 | 7175 | 7182 | 7188 | 7195 | 7202 | 7208 | 7215 | 7221 | 7228 | 4 2.8 |
| 65 | 81 7235 | 7241 | 7248 | 7255 | 7261 | 7268 | 7274 | 7281 | 7288 | 7294 | 5 3.5 |
| 66 | 7301 | 7307 | 7314 | 7321 | 7327 | 7334 | 7341 | 7347 | 7354 | 7360 | 6 4.2 |
| 67 | 7367 | 7374 | 7380 | 7387 | 7393 | 7400 | 7407 | 7413 | 7420 | 7427 | 7 4.9 |
| 68 | 7433 | 7440 | 7446 | 7453 | 7460 | 7466 | 7473 | 7479 | 7486 | 7493 | 8 5.6 |
| 69 | 7499 | 7506 | 7512 | 7519 | 7526 | 7532 | 7539 | 7546 | 7552 | 7559 | 9 6.3 |
| 6570 | 81 7565 | 7572 | 7579 | 7585 | 7592 | 7598 | 7605 | 7612 | 7618 | 7625 | |
| 71 | 7631 | 7638 | 7645 | 7651 | 7658 | 7665 | 7671 | 7678 | 7684 | 7691 | |
| 72 | 7698 | 7704 | 7711 | 7717 | 7724 | 7731 | 7737 | 7744 | 7750 | 7757 | |
| 73 | 7764 | 7770 | 7777 | 7783 | 7790 | 7797 | 7803 | 7810 | 7816 | 7823 | |
| 74 | 7830 | 7836 | 7843 | 7850 | 7856 | 7863 | 7869 | 7876 | 7883 | 7889 | |
| 75 | 81 7896 | 7902 | 7909 | 7916 | 7922 | 7929 | 7935 | 7942 | 7949 | 7955 | |
| 76 | 7962 | 7968 | 7975 | 7982 | 7988 | 7995 | 8001 | 8008 | 8015 | 8021 | |
| 77 | 8028 | 8034 | 8041 | 8048 | 8054 | 8061 | 8067 | 8074 | 8081 | 8087 | |
| 78 | 8094 | 8100 | 8107 | 8114 | 8120 | 8127 | 8133 | 8140 | 8147 | 8153 | |
| 79 | 8160 | 8166 | 8173 | 8180 | 8186 | 8193 | 8199 | 8206 | 8213 | 8219 | |
| 6580 | 81 8226 | 8232 | 8239 | 8246 | 8252 | 8259 | 8265 | 8272 | 8279 | 8285 | |
| 81 | 8292 | 8298 | 8305 | 8312 | 8318 | 8325 | 8331 | 8338 | 8345 | 8351 | 6 0.6 |
| 82 | 8358 | 8364 | 8371 | 8378 | 8384 | 8391 | 8397 | 8404 | 8411 | 8417 | 1 1.2 |
| 83 | 8424 | 8430 | 8437 | 8444 | 8450 | 8457 | 8463 | 8470 | 8477 | 8483 | 2 1.8 |
| 84 | 8490 | 8496 | 8503 | 8510 | 8516 | 8523 | 8529 | 8536 | 8543 | 8549 | 3 2.4 |
| 85 | 81 8556 | 8562 | 8569 | 8576 | 8582 | 8589 | 8595 | 8602 | 8609 | 8615 | 4 3.0 |
| 86 | 8622 | 8628 | 8635 | 8642 | 8648 | 8655 | 8661 | 8668 | 8674 | 8681 | 5 3.6 |
| 87 | 8688 | 8694 | 8701 | 8707 | 8714 | 8721 | 8727 | 8734 | 8740 | 8747 | 6 4.2 |
| 88 | 8754 | 8760 | 8767 | 8773 | 8780 | 8787 | 8793 | 8800 | 8806 | 8813 | 7 4.8 |
| 89 | 8820 | 8826 | 8833 | 8839 | 8846 | 8852 | 8859 | 8866 | 8872 | 8879 | 8 5.4 |
| 6590 | 81 8885 | 8892 | 8899 | 8905 | 8912 | 8918 | 8925 | 8932 | 8938 | 8945 | |
| 91 | 8951 | 8958 | 8964 | 8971 | 8978 | 8984 | 8991 | 8997 | 9004 | 9011 | |
| 92 | 9017 | 9024 | 9030 | 9037 | 9044 | 9050 | 9057 | 9063 | 9070 | 9076 | |
| 93 | 9083 | 9090 | 9096 | 9103 | 9109 | 9116 | 9123 | 9129 | 9136 | 9142 | |
| 94 | 9149 | 9156 | 9162 | 9169 | 9175 | 9182 | 9188 | 9195 | 9202 | 9208 | |
| 95 | 81 9215 | 9221 | 9228 | 9235 | 9241 | 9248 | 9254 | 9261 | 9267 | 9274 | |
| 96 | 9281 | 9287 | 9294 | 9300 | 9307 | 9314 | 9320 | 9327 | 9333 | 9340 | |
| 97 | 9346 | 9353 | 9360 | 9366 | 9373 | 9379 | 9386 | 9393 | 9399 | 9406 | |
| 98 | 9412 | 9419 | 9425 | 9432 | 9439 | 9445 | 9452 | 9458 | 9465 | 9472 | |
| 99 | 9478 | 9485 | 9491 | 9498 | 9504 | 9511 | 9518 | 9524 | 9531 | 9537 | |
| 6600 | 81 9544 | 9551 | 9557 | 9564 | 9570 | 9577 | 9583 | 9590 | 9597 | 9603 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 65500 | = 18° 11' 40" | | | | 65500 | = 1° 49' 10" | | | S. 4.685 | 502 | T. 721 |
| 65600 | = 18 13 20 | | | | 65600 | = 1 49 20 | | | | 502 | 721 |
| 65700 | = 18 15 0 | | | | 65700 | = 1 49 30 | | | | 501 | 722 |
| 65800 | = 18 16 40 | | | | 65800 | = 1 49 40 | | | | 501 | 722 |
| 65900 | = 18 18 20 | | | | 65900 | = 1 49 50 | | | | 501 | 723 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|--------------|------|------|------|-------------------|------|------|------|---------------------|------|-------|
| 6600 | 81 9544 | 9551 | 9557 | 9564 | 9570 | 9577 | 9583 | 9590 | 9597 | 9603 | |
| 01 | 9610 | 9616 | 9623 | 9629 | 9636 | 9643 | 9649 | 9656 | 9662 | 9669 | |
| 02 | 9676 | 9682 | 9689 | 9695 | 9702 | 9708 | 9715 | 9722 | 9728 | 9735 | |
| 03 | 9741 | 9748 | 9754 | 9761 | 9768 | 9774 | 9781 | 9787 | 9794 | 9800 | |
| 04 | 9807 | 9814 | 9820 | 9827 | 9833 | 9840 | 9847 | 9853 | 9860 | 9866 | |
| 05 | 81 9873 | 9879 | 9886 | 9893 | 9899 | 9906 | 9912 | 9919 | 9925 | 9932 | |
| 06 | 9939 | 9945 | 9952 | 9958 | 9965 | 9971 | 9978 | 9985 | 9991 | 9998 | |
| 07 | 82 0004 | 0011 | 0017 | 0024 | 0031 | 0037 | 0044 | 0050 | 0057 | 0063 | |
| 08 | 0070 | 0077 | 0083 | 0090 | 0096 | 0103 | 0109 | 0116 | 0123 | 0129 | |
| 09 | 0136 | 0142 | 0149 | 0155 | 0162 | 0169 | 0175 | 0182 | 0188 | 0195 | |
| 6610 | 82 0201 | 0208 | 0215 | 0221 | 0228 | 0234 | 0241 | 0247 | 0254 | 0261 | |
| 11 | 0267 | 0274 | 0280 | 0287 | 0293 | 0300 | 0307 | 0313 | 0320 | 0326 | 7 |
| 12 | 0333 | 0339 | 0346 | 0353 | 0359 | 0366 | 0372 | 0379 | 0385 | 0392 | 1 0.7 |
| 13 | 0399 | 0405 | 0412 | 0418 | 0425 | 0431 | 0438 | 0444 | 0451 | 0458 | 2 1.4 |
| 14 | 0464 | 0471 | 0477 | 0484 | 0490 | 0497 | 0504 | 0510 | 0517 | 0523 | 3 2.1 |
| 15 | 82 0530 | 0536 | 0543 | 0550 | 0556 | 0563 | 0569 | 0576 | 0582 | 0589 | 4 2.8 |
| 16 | 0595 | 0602 | 0609 | 0615 | 0622 | 0628 | 0635 | 0641 | 0648 | 0655 | 5 3.5 |
| 17 | 0661 | 0668 | 0674 | 0681 | 0687 | 0694 | 0701 | 0707 | 0714 | 0720 | 6 4.2 |
| 18 | 0727 | 0733 | 0740 | 0746 | 0753 | 0760 | 0766 | 0773 | 0779 | 0786 | 7 4.9 |
| 19 | 0792 | 0799 | 0806 | 0812 | 0819 | 0825 | 0832 | 0838 | 0845 | 0851 | 8 5.6 |
| 6620 | 82 0858 | 0865 | 0871 | 0878 | 0884 | 0891 | 0897 | 0904 | 0910 | 0917 | 9 6.3 |
| 21 | 0924 | 0930 | 0937 | 0943 | 0950 | 0956 | 0963 | 0970 | 0976 | 0983 | |
| 22 | 0989 | 0996 | 1002 | 1009 | 1015 | 1022 | 1029 | 1035 | 1042 | 1048 | |
| 23 | 1055 | 1061 | 1068 | 1074 | 1081 | 1088 | 1094 | 1101 | 1107 | 1114 | |
| 24 | 1120 | 1127 | 1133 | 1140 | 1147 | 1153 | 1160 | 1166 | 1173 | 1179 | |
| 25 | 82 1186 | 1192 | 1199 | 1206 | 1212 | 1219 | 1225 | 1232 | 1238 | 1245 | |
| 26 | 1251 | 1258 | 1265 | 1271 | 1278 | 1284 | 1291 | 1297 | 1304 | 1310 | |
| 27 | 1317 | 1324 | 1330 | 1337 | 1343 | 1350 | 1356 | 1363 | 1369 | 1376 | |
| 28 | 1382 | 1389 | 1396 | 1402 | 1409 | 1415 | 1422 | 1428 | 1435 | 1441 | |
| 29 | 1448 | 1455 | 1461 | 1468 | 1474 | 1481 | 1487 | 1494 | 1500 | 1507 | |
| 6630 | 82 1514 | 1520 | 1527 | 1533 | 1540 | 1546 | 1553 | 1559 | 1566 | 1572 | |
| 31 | 1579 | 1586 | 1592 | 1599 | 1605 | 1612 | 1618 | 1625 | 1631 | 1638 | 6 |
| 32 | 1645 | 1651 | 1658 | 1664 | 1671 | 1677 | 1684 | 1690 | 1697 | 1703 | 1 0.6 |
| 33 | 1710 | 1717 | 1723 | 1730 | 1736 | 1743 | 1749 | 1756 | 1762 | 1769 | 2 1.2 |
| 34 | 1775 | 1782 | 1789 | 1795 | 1802 | 1808 | 1815 | 1821 | 1828 | 1834 | 3 1.8 |
| 35 | 82 1841 | 1847 | 1854 | 1861 | 1867 | 1874 | 1880 | 1887 | 1893 | 1900 | 4 2.4 |
| 36 | 1906 | 1913 | 1919 | 1926 | 1933 | 1939 | 1946 | 1952 | 1959 | 1965 | 5 3.0 |
| 37 | 1972 | 1978 | 1985 | 1991 | 1998 | 2005 | 2011 | 2018 | 2024 | 2031 | 6 3.6 |
| 38 | 2037 | 2044 | 2050 | 2057 | 2063 | 2070 | 2077 | 2083 | 2090 | 2096 | 7 4.2 |
| 39 | 2103 | 2109 | 2116 | 2122 | 2129 | 2135 | 2142 | 2148 | 2155 | 2162 | 8 4.8 |
| 6640 | 82 2168 | 2175 | 2181 | 2188 | 2194 | 2201 | 2207 | 2214 | 2220 | 2227 | 9 5.4 |
| 41 | 2233 | 2240 | 2247 | 2253 | 2260 | 2266 | 2273 | 2279 | 2286 | 2292 | |
| 42 | 2299 | 2305 | 2312 | 2318 | 2325 | 2332 | 2338 | 2345 | 2351 | 2358 | |
| 43 | 2364 | 2371 | 2377 | 2384 | 2390 | 2397 | 2403 | 2410 | 2417 | 2423 | |
| 44 | 2430 | 2436 | 2443 | 2449 | 2456 | 2462 | 2469 | 2475 | 2482 | 2488 | |
| 45 | 82 2495 | 2502 | 2508 | 2515 | 2521 | 2528 | 2534 | 2541 | 2547 | 2554 | |
| 46 | 2560 | 2567 | 2573 | 2580 | 2586 | 2593 | 2600 | 2606 | 2613 | 2619 | |
| 47 | 2626 | 2632 | 2639 | 2645 | 2652 | 2658 | 2665 | 2671 | 2678 | 2684 | |
| 48 | 2691 | 2698 | 2704 | 2711 | 2717 | 2724 | 2730 | 2737 | 2743 | 2750 | |
| 49 | 2756 | 2763 | 2769 | 2776 | 2782 | 2789 | 2796 | 2802 | 2809 | 2815 | |
| 6650 | 82 2822 | 2828 | 2835 | 2841 | 2848 | 2854 | 2861 | 2867 | 2874 | 2880 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 66000" | = 18° 20' 0" | | | | 6600" = 1° 50' 0" | | | | S. 4,685 501 T. 723 | | |
| 66100 | = 18 21 40 | | | | 6610 = 1 50 10 | | | | 501 724 | | |
| 66200 | = 18 23 20 | | | | 6620 = 1 50 20 | | | | 500 724 | | |
| 66300 | = 18 25 0 | | | | 6630 = 1 50 30 | | | | 500 724 | | |
| 66400 | = 18 26 40 | | | | 6640 = 1 50 40 | | | | 500 725 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|----------|------|--------|-----|
| 6650 | 82 2822 | 2828 | 2835 | 2841 | 2848 | 2854 | 2861 | 2867 | 2874 | 2880 | |
| 51 | 2887 | 2893 | 2900 | 2907 | 2913 | 2920 | 2926 | 2933 | 2939 | 2946 | |
| 52 | 2952 | 2959 | 2965 | 2972 | 2978 | 2985 | 2991 | 2998 | 3004 | 3011 | |
| 53 | 3018 | 3024 | 3031 | 3037 | 3044 | 3050 | 3057 | 3063 | 3070 | 3076 | |
| 54 | 3083 | 3089 | 3096 | 3102 | 3109 | 3115 | 3122 | 3128 | 3135 | 3142 | |
| 55 | 82 3148 | 3155 | 3161 | 3168 | 3174 | 3181 | 3187 | 3194 | 3200 | 3207 | |
| 56 | 3213 | 3220 | 3226 | 3233 | 3239 | 3246 | 3252 | 3259 | 3266 | 3272 | |
| 57 | 3279 | 3285 | 3292 | 3298 | 3305 | 3311 | 3318 | 3324 | 3331 | 3337 | |
| 58 | 3344 | 3350 | 3357 | 3363 | 3370 | 3376 | 3383 | 3389 | 3396 | 3402 | |
| 59 | 3409 | 3416 | 3422 | 3429 | 3435 | 3442 | 3448 | 3455 | 3461 | 3468 | |
| 6660 | 82 3474 | 3481 | 3487 | 3494 | 3500 | 3507 | 3513 | 3520 | 3526 | 3533 | |
| 61 | 3539 | 3546 | 3552 | 3559 | 3566 | 3572 | 3579 | 3585 | 3592 | 3598 | |
| 62 | 3605 | 3611 | 3618 | 3624 | 3631 | 3637 | 3644 | 3650 | 3657 | 3663 | |
| 63 | 3670 | 3676 | 3683 | 3689 | 3696 | 3702 | 3709 | 3715 | 3722 | 3728 | |
| 64 | 3735 | 3742 | 3748 | 3755 | 3761 | 3768 | 3774 | 3781 | 3787 | 3794 | |
| 65 | 82 3800 | 3807 | 3813 | 3820 | 3826 | 3833 | 3839 | 3846 | 3852 | 3859 | |
| 66 | 3865 | 3872 | 3878 | 3885 | 3891 | 3898 | 3904 | 3911 | 3917 | 3924 | |
| 67 | 3930 | 3937 | 3943 | 3950 | 3957 | 3963 | 3970 | 3976 | 3983 | 3989 | |
| 68 | 3996 | 4002 | 4009 | 4015 | 4022 | 4028 | 4035 | 4041 | 4048 | 4054 | |
| 69 | 4061 | 4067 | 4074 | 4080 | 4087 | 4093 | 4100 | 4106 | 4113 | 4119 | |
| 6670 | 82 4126 | 4132 | 4139 | 4145 | 4152 | 4158 | 4165 | 4171 | 4178 | 4184 | |
| 71 | 4191 | 4197 | 4204 | 4210 | 4217 | 4223 | 4230 | 4237 | 4243 | 4250 | |
| 72 | 4256 | 4263 | 4269 | 4276 | 4282 | 4289 | 4295 | 4302 | 4308 | 4315 | |
| 73 | 4321 | 4328 | 4334 | 4341 | 4347 | 4354 | 4360 | 4367 | 4373 | 4380 | |
| 74 | 4386 | 4393 | 4399 | 4406 | 4412 | 4419 | 4425 | 4432 | 4438 | 4445 | |
| 75 | 82 4451 | 4458 | 4464 | 4471 | 4477 | 4484 | 4490 | 4497 | 4503 | 4510 | |
| 76 | 4516 | 4523 | 4529 | 4536 | 4542 | 4549 | 4555 | 4562 | 4568 | 4575 | |
| 77 | 4581 | 4588 | 4594 | 4601 | 4607 | 4614 | 4620 | 4627 | 4633 | 4640 | |
| 78 | 4646 | 4653 | 4659 | 4666 | 4672 | 4679 | 4685 | 4692 | 4698 | 4705 | |
| 79 | 4711 | 4718 | 4724 | 4731 | 4737 | 4744 | 4750 | 4757 | 4763 | 4770 | |
| 6680 | 82 4776 | 4783 | 4789 | 4796 | 4802 | 4809 | 4815 | 4822 | 4828 | 4835 | |
| 81 | 4841 | 4848 | 4854 | 4861 | 4867 | 4874 | 4880 | 4887 | 4893 | 4900 | |
| 82 | 4906 | 4913 | 4919 | 4926 | 4932 | 4939 | 4945 | 4952 | 4958 | 4965 | |
| 83 | 4971 | 4978 | 4984 | 4991 | 4997 | 5004 | 5010 | 5017 | 5023 | 5030 | |
| 84 | 5036 | 5043 | 5049 | 5056 | 5062 | 5069 | 5075 | 5082 | 5088 | 5095 | |
| 85 | 82 5101 | 5108 | 5114 | 5121 | 5127 | 5134 | 5140 | 5147 | 5153 | 5160 | |
| 86 | 5166 | 5173 | 5179 | 5186 | 5192 | 5199 | 5205 | 5212 | 5218 | 5225 | |
| 87 | 5231 | 5238 | 5244 | 5251 | 5257 | 5264 | 5270 | 5277 | 5283 | 5290 | |
| 88 | 5296 | 5303 | 5309 | 5316 | 5322 | 5329 | 5335 | 5342 | 5348 | 5355 | |
| 89 | 5361 | 5368 | 5374 | 5381 | 5387 | 5394 | 5400 | 5407 | 5413 | 5420 | |
| 6690 | 82 5426 | 5433 | 5439 | 5446 | 5452 | 5459 | 5465 | 5472 | 5478 | 5485 | |
| 91 | 5491 | 5498 | 5504 | 5511 | 5517 | 5523 | 5530 | 5536 | 5543 | 5549 | |
| 92 | 5556 | 5562 | 5569 | 5575 | 5582 | 5588 | 5595 | 5601 | 5608 | 5614 | |
| 93 | 5621 | 5627 | 5634 | 5640 | 5647 | 5653 | 5660 | 5666 | 5673 | 5679 | |
| 94 | 5686 | 5692 | 5699 | 5705 | 5712 | 5718 | 5725 | 5731 | 5738 | 5744 | |
| 95 | 82 5751 | 5757 | 5764 | 5770 | 5777 | 5783 | 5790 | 5796 | 5802 | 5809 | |
| 96 | 5815 | 5822 | 5828 | 5835 | 5841 | 5848 | 5854 | 5861 | 5867 | 5874 | |
| 97 | 5880 | 5887 | 5893 | 5900 | 5906 | 5913 | 5919 | 5926 | 5932 | 5939 | |
| 98 | 5945 | 5952 | 5958 | 5965 | 5971 | 5978 | 5984 | 5991 | 5997 | 6003 | |
| 99 | 6010 | 6016 | 6023 | 6029 | 6036 | 6042 | 6049 | 6055 | 6062 | 6068 | |
| 6700 | 82 6075 | 6081 | 6088 | 6094 | 6101 | 6107 | 6114 | 6120 | 6127 | 6133 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 66500 | = 18° 28' 20" | | | | 66500 | = 1° 50' 50" | | S. 4,685 | 500 | T. 725 | |
| 66600 | = 18 30 0 | | | | 66600 | = 1 51 0 | | | 499 | 726 | |
| 66700 | = 18 31 40 | | | | 66700 | = 1 51 10 | | | 499 | 726 | |
| 66800 | = 18 33 20 | | | | 66800 | = 1 51 20 | | | 499 | 727 | |
| 66900 | = 18 35 0 | | | | 66900 | = 1 51 30 | | | 499 | 727 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|------|--------------------|------|------|---------------------|------|------|-------|
| 6700 | 82 6075 | 6081 | 6088 | 6094 | 6101 | 6107 | 6114 | 6120 | 6127 | 6133 | |
| 01 | 6140 | 6146 | 6153 | 6159 | 6166 | 6172 | 6179 | 6185 | 6191 | 6198 | |
| 02 | 6204 | 6211 | 6217 | 6224 | 6230 | 6237 | 6243 | 6250 | 6256 | 6263 | |
| 03 | 6269 | 6276 | 6282 | 6289 | 6295 | 6302 | 6308 | 6315 | 6321 | 6328 | |
| 04 | 6334 | 6340 | 6347 | 6353 | 6360 | 6366 | 6373 | 6379 | 6386 | 6392 | |
| 05 | 82 6399 | 6405 | 6412 | 6418 | 6425 | 6431 | 6438 | 6444 | 6451 | 6457 | |
| 06 | 6464 | 6470 | 6477 | 6483 | 6489 | 6496 | 6502 | 6509 | 6515 | 6522 | |
| 07 | 6528 | 6535 | 6541 | 6548 | 6554 | 6561 | 6567 | 6574 | 6580 | 6587 | |
| 08 | 6593 | 6600 | 6606 | 6612 | 6619 | 6625 | 6632 | 6638 | 6645 | 6651 | |
| 09 | 6658 | 6664 | 6671 | 6677 | 6684 | 6690 | 6697 | 6703 | 6710 | 6716 | |
| 6710 | 82 6723 | 6729 | 6735 | 6742 | 6748 | 6755 | 6761 | 6768 | 6774 | 6781 | |
| 11 | 6787 | 6794 | 6800 | 6807 | 6813 | 6820 | 6826 | 6833 | 6839 | 6845 | 7 |
| 12 | 6852 | 6858 | 6865 | 6871 | 6878 | 6884 | 6891 | 6897 | 6904 | 6910 | 1 0.7 |
| 13 | 6917 | 6923 | 6930 | 6936 | 6943 | 6949 | 6955 | 6962 | 6968 | 6975 | 2 1.4 |
| 14 | 6981 | 6988 | 6994 | 7001 | 7007 | 7014 | 7020 | 7027 | 7033 | 7040 | 3 2.1 |
| 15 | 82 7046 | 7052 | 7059 | 7065 | 7072 | 7078 | 7085 | 7091 | 7098 | 7104 | 4 2.8 |
| 16 | 7111 | 7117 | 7124 | 7130 | 7137 | 7143 | 7149 | 7156 | 7162 | 7169 | 5 3.5 |
| 17 | 7175 | 7182 | 7188 | 7195 | 7201 | 7208 | 7214 | 7221 | 7227 | 7234 | 6 4.2 |
| 18 | 7240 | 7246 | 7253 | 7259 | 7266 | 7272 | 7279 | 7285 | 7292 | 7298 | 7 4.9 |
| 19 | 7305 | 7311 | 7318 | 7324 | 7330 | 7337 | 7343 | 7350 | 7356 | 7363 | 8 5.6 |
| 6720 | 82 7369 | 7376 | 7382 | 7389 | 7395 | 7402 | 7408 | 7415 | 7421 | 7427 | 9 6.3 |
| 21 | 7434 | 7440 | 7447 | 7453 | 7460 | 7466 | 7473 | 7479 | 7486 | 7492 | |
| 22 | 7499 | 7505 | 7511 | 7518 | 7524 | 7531 | 7537 | 7544 | 7550 | 7557 | |
| 23 | 7563 | 7570 | 7576 | 7582 | 7589 | 7595 | 7602 | 7608 | 7615 | 7621 | |
| 24 | 7628 | 7634 | 7641 | 7647 | 7654 | 7660 | 7666 | 7673 | 7679 | 7686 | |
| 25 | 82 7692 | 7699 | 7705 | 7712 | 7718 | 7725 | 7731 | 7737 | 7744 | 7750 | |
| 26 | 7757 | 7763 | 7770 | 7776 | 7783 | 7789 | 7796 | 7802 | 7809 | 7815 | |
| 27 | 7821 | 7828 | 7834 | 7841 | 7847 | 7854 | 7860 | 7867 | 7873 | 7880 | |
| 28 | 7886 | 7892 | 7899 | 7905 | 7912 | 7918 | 7925 | 7931 | 7938 | 7944 | |
| 29 | 7951 | 7957 | 7963 | 7970 | 7976 | 7983 | 7989 | 7996 | 8002 | 8009 | |
| 6730 | 82 8015 | 8022 | 8028 | 8034 | 8041 | 8047 | 8054 | 8060 | 8067 | 8073 | |
| 31 | 8080 | 8086 | 8092 | 8099 | 8105 | 8112 | 8118 | 8125 | 8131 | 8138 | 6 |
| 32 | 8144 | 8151 | 8157 | 8163 | 8170 | 8176 | 8183 | 8189 | 8196 | 8202 | 1 0.6 |
| 33 | 8209 | 8215 | 8222 | 8228 | 8234 | 8241 | 8247 | 8254 | 8260 | 8267 | 2 1.2 |
| 34 | 8273 | 8280 | 8286 | 8292 | 8299 | 8305 | 8312 | 8318 | 8325 | 8331 | 3 1.8 |
| 35 | 82 8338 | 8344 | 8350 | 8357 | 8363 | 8370 | 8376 | 8383 | 8389 | 8396 | 4 2.4 |
| 36 | 8402 | 8409 | 8415 | 8421 | 8428 | 8434 | 8441 | 8447 | 8454 | 8460 | 5 3.0 |
| 37 | 8467 | 8473 | 8479 | 8486 | 8492 | 8499 | 8505 | 8512 | 8518 | 8525 | 6 3.6 |
| 38 | 8531 | 8537 | 8544 | 8550 | 8557 | 8563 | 8570 | 8576 | 8583 | 8589 | 7 4.2 |
| 39 | 8595 | 8602 | 8608 | 8615 | 8621 | 8628 | 8634 | 8641 | 8647 | 8653 | 8 4.8 |
| 6740 | 82 8660 | 8666 | 8673 | 8679 | 8686 | 8692 | 8699 | 8705 | 8711 | 8718 | 9 5.4 |
| 41 | 8721 | 8727 | 8734 | 8740 | 8747 | 8753 | 8760 | 8766 | 8773 | 8779 | |
| 42 | 8785 | 8791 | 8798 | 8804 | 8811 | 8817 | 8824 | 8830 | 8837 | 8843 | |
| 43 | 8853 | 8860 | 8866 | 8872 | 8879 | 8885 | 8892 | 8898 | 8905 | 8911 | |
| 44 | 8918 | 8924 | 8930 | 8937 | 8943 | 8950 | 8956 | 8963 | 8969 | 8976 | |
| 45 | 82 8982 | 8988 | 8995 | 9001 | 9008 | 9014 | 9021 | 9027 | 9033 | 9040 | |
| 46 | 9046 | 9053 | 9059 | 9066 | 9072 | 9079 | 9085 | 9091 | 9098 | 9104 | |
| 47 | 9111 | 9117 | 9124 | 9130 | 9136 | 9143 | 9149 | 9156 | 9162 | 9169 | |
| 48 | 9175 | 9182 | 9188 | 9194 | 9201 | 9207 | 9214 | 9220 | 9227 | 9233 | |
| 49 | 9239 | 9246 | 9252 | 9259 | 9265 | 9272 | 9278 | 9284 | 9291 | 9297 | |
| 6750 | 82 9304 | 9310 | 9317 | 9323 | 9330 | 9336 | 9342 | 9349 | 9355 | 9362 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 67000' | = 18° 36' 40" | | | | 6700" = 1° 51' 40" | | | S. 4,685 498 T. 728 | | | |
| 67100 | = 18 38 20 | | | | 6710 = 1 51 50 | | | 498 728 | | | |
| 67200 | = 18 40 0 | | | | 6720 = 1 52 0 | | | 498 729 | | | |
| 67300 | = 18 41 40 | | | | 6730 = 1 52 10 | | | 498 729 | | | |
| 67400 | = 18 43 20 | | | | 6740 = 1 52 20 | | | 498 729 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|--------------|------|------|----------|------|--------|
| 6750 | 82 9304 | 9310 | 9317 | 9323 | 9330 | 9336 | 9342 | 9349 | 9355 | 9362 | |
| 51 | 9368 | 9375 | 9381 | 9387 | 9394 | 9400 | 9407 | 9413 | 9420 | 9426 | |
| 52 | 9432 | 9439 | 9445 | 9452 | 9458 | 9465 | 9471 | 9477 | 9484 | 9490 | |
| 53 | 9497 | 9503 | 9510 | 9516 | 9522 | 9529 | 9535 | 9542 | 9548 | 9555 | |
| 54 | 9561 | 9567 | 9574 | 9580 | 9587 | 9593 | 9600 | 9606 | 9612 | 9619 | |
| 55 | 82 9625 | 9632 | 9638 | 9645 | 9651 | 9657 | 9664 | 9670 | 9677 | 9683 | |
| 56 | 9690 | 9696 | 9702 | 9709 | 9715 | 9722 | 9728 | 9735 | 9741 | 9747 | |
| 57 | 9754 | 9760 | 9767 | 9773 | 9780 | 9786 | 9792 | 9799 | 9805 | 9812 | |
| 58 | 9818 | 9825 | 9831 | 9837 | 9844 | 9850 | 9857 | 9863 | 9870 | 9876 | |
| 59 | 9882 | 9889 | 9895 | 9902 | 9908 | 9915 | 9921 | 9927 | 9934 | 9940 | |
| 6760 | 82 9947 | 9953 | 9960 | 9966 | 9972 | 9979 | 9985 | 9992 | 9998 | 0005 | |
| 61 | 83 0011 | 0017 | 0024 | 0030 | 0037 | 0043 | 0049 | 0056 | 0062 | 0069 | 7 |
| 62 | 0075 | 0082 | 0088 | 0094 | 0101 | 0107 | 0114 | 0120 | 0127 | 0133 | 1 |
| 63 | 0139 | 0146 | 0152 | 0159 | 0165 | 0171 | 0178 | 0184 | 0191 | 0197 | 2 |
| 64 | 0204 | 0210 | 0216 | 0223 | 0229 | 0236 | 0242 | 0249 | 0255 | 0261 | 3 |
| 65 | 83 0268 | 0274 | 0281 | 0287 | 0293 | 0300 | 0306 | 0313 | 0319 | 0326 | 4 |
| 66 | 0332 | 0338 | 0345 | 0351 | 0358 | 0364 | 0371 | 0377 | 0383 | 0390 | 5 |
| 67 | 0396 | 0403 | 0409 | 0415 | 0422 | 0428 | 0435 | 0441 | 0448 | 0454 | 6 |
| 68 | 0460 | 0467 | 0473 | 0480 | 0486 | 0492 | 0499 | 0505 | 0512 | 0518 | 7 |
| 69 | 0525 | 0531 | 0537 | 0544 | 0550 | 0557 | 0563 | 0569 | 0576 | 0582 | 8 |
| 6770 | 83 0589 | 0595 | 0601 | 0608 | 0614 | 0621 | 0627 | 0634 | 0640 | 0646 | 9 |
| 71 | 0653 | 0659 | 0666 | 0672 | 0678 | 0685 | 0691 | 0698 | 0704 | 0711 | |
| 72 | 0717 | 0723 | 0730 | 0736 | 0743 | 0749 | 0755 | 0762 | 0768 | 0775 | |
| 73 | 0781 | 0787 | 0794 | 0800 | 0807 | 0813 | 0820 | 0826 | 0832 | 0839 | |
| 74 | 0845 | 0852 | 0858 | 0864 | 0871 | 0877 | 0884 | 0890 | 0896 | 0903 | |
| 75 | 83 0909 | 0916 | 0922 | 0929 | 0935 | 0941 | 0948 | 0954 | 0961 | 0967 | |
| 76 | 0973 | 0980 | 0986 | 0993 | 0999 | 1005 | 1012 | 1018 | 1025 | 1031 | |
| 77 | 1037 | 1044 | 1050 | 1057 | 1063 | 1070 | 1076 | 1082 | 1089 | 1095 | |
| 78 | 1102 | 1108 | 1114 | 1121 | 1127 | 1134 | 1140 | 1146 | 1153 | 1159 | |
| 79 | 1166 | 1172 | 1178 | 1185 | 1191 | 1198 | 1204 | 1210 | 1217 | 1223 | |
| 6780 | 83 1230 | 1236 | 1243 | 1249 | 1255 | 1262 | 1268 | 1275 | 1281 | 1287 | |
| 81 | 1294 | 1300 | 1307 | 1313 | 1319 | 1326 | 1332 | 1339 | 1345 | 1351 | 6 |
| 82 | 1358 | 1364 | 1371 | 1377 | 1383 | 1390 | 1396 | 1403 | 1409 | 1415 | 1 |
| 83 | 1422 | 1428 | 1435 | 1441 | 1447 | 1454 | 1460 | 1467 | 1473 | 1479 | 2 |
| 84 | 1486 | 1492 | 1499 | 1505 | 1511 | 1518 | 1524 | 1531 | 1537 | 1543 | 3 |
| 85 | 83 1550 | 1556 | 1563 | 1569 | 1575 | 1582 | 1588 | 1595 | 1601 | 1607 | 4 |
| 86 | 1614 | 1620 | 1627 | 1633 | 1639 | 1646 | 1652 | 1659 | 1665 | 1671 | 5 |
| 87 | 1678 | 1684 | 1691 | 1697 | 1703 | 1710 | 1716 | 1723 | 1729 | 1735 | 6 |
| 88 | 1742 | 1748 | 1755 | 1761 | 1767 | 1774 | 1780 | 1787 | 1793 | 1799 | 7 |
| 89 | 1806 | 1812 | 1819 | 1825 | 1831 | 1838 | 1844 | 1851 | 1857 | 1863 | 8 |
| 6790 | 83 1870 | 1876 | 1883 | 1889 | 1895 | 1902 | 1908 | 1915 | 1921 | 1927 | 9 |
| 91 | 1934 | 1940 | 1947 | 1953 | 1959 | 1966 | 1972 | 1978 | 1985 | 1991 | |
| 92 | 1998 | 2004 | 2010 | 2017 | 2023 | 2030 | 2036 | 2042 | 2049 | 2055 | |
| 93 | 2062 | 2068 | 2074 | 2081 | 2087 | 2094 | 2100 | 2106 | 2113 | 2119 | |
| 94 | 2126 | 2132 | 2138 | 2145 | 2151 | 2158 | 2164 | 2170 | 2177 | 2183 | |
| 95 | 83 2189 | 2196 | 2202 | 2209 | 2215 | 2221 | 2228 | 2234 | 2241 | 2247 | |
| 96 | 2253 | 2260 | 2266 | 2273 | 2279 | 2285 | 2292 | 2298 | 2304 | 2311 | |
| 97 | 2317 | 2324 | 2330 | 2336 | 2343 | 2349 | 2356 | 2362 | 2368 | 2375 | |
| 98 | 2381 | 2388 | 2394 | 2400 | 2407 | 2413 | 2419 | 2426 | 2432 | 2439 | |
| 99 | 2445 | 2451 | 2458 | 2464 | 2471 | 2477 | 2483 | 2490 | 2496 | 2503 | |
| 6800 | 83 2509 | 2515 | 2522 | 2528 | 2534 | 2541 | 2547 | 2554 | 2560 | 2566 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 67500 | = 18° 45' 0" | | | | 67500 | = 1° 52' 30" | | | S. 4,685 | 497 | T. 730 |
| 67600 | = 18 46 40 | | | | 67600 | = 1 52 40 | | | | 497 | 730 |
| 67700 | = 18 48 20 | | | | 67700 | = 1 52 50 | | | | 497 | 731 |
| 67800 | = 18 50 0 | | | | 67800 | = 1 53 0 | | | | 497 | 731 |
| 67900 | = 18 51 40 | | | | 67900 | = 1 53 10 | | | | 496 | 732 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|--------|-------------|------|---------|------|--------|-----|
| 6800 | 83 2509 | 2515 | 2522 | 2528 | 2534 | 2541 | 2547 | 2554 | 2560 | 2566 | |
| 01 | 2573 | 2579 | 2586 | 2592 | 2598 | 2605 | 2611 | 2617 | 2624 | 2630 | |
| 02 | 2637 | 2643 | 2649 | 2656 | 2662 | 2669 | 2675 | 2681 | 2688 | 2694 | |
| 03 | 2700 | 2707 | 2713 | 2720 | 2726 | 2732 | 2739 | 2745 | 2752 | 2758 | |
| 04 | 2764 | 2771 | 2777 | 2783 | 2790 | 2796 | 2803 | 2809 | 2815 | 2822 | |
| 05 | 83 2828 | 2835 | 2841 | 2847 | 2854 | 2860 | 2866 | 2873 | 2879 | 2886 | |
| 06 | 2892 | 2898 | 2905 | 2911 | 2917 | 2924 | 2930 | 2937 | 2943 | 2949 | |
| 07 | 2956 | 2962 | 2969 | 2975 | 2981 | 2988 | 2994 | 3000 | 3007 | 3013 | |
| 08 | 3020 | 3026 | 3032 | 3039 | 3045 | 3051 | 3058 | 3064 | 3071 | 3077 | |
| 09 | 3083 | 3090 | 3096 | 3102 | 3109 | 3115 | 3122 | 3128 | 3134 | 3141 | |
| 6810 | 83 3147 | 3153 | 3160 | 3166 | 3173 | 3179 | 3185 | 3192 | 3198 | 3205 | |
| 11 | 3211 | 3217 | 3224 | 3230 | 3236 | 3243 | 3249 | 3256 | 3262 | 3268 | |
| 12 | 3275 | 3281 | 3287 | 3294 | 3300 | 3307 | 3313 | 3319 | 3326 | 3332 | |
| 13 | 3338 | 3345 | 3351 | 3358 | 3364 | 3370 | 3377 | 3383 | 3389 | 3396 | |
| 14 | 3402 | 3409 | 3415 | 3421 | 3428 | 3434 | 3440 | 3447 | 3453 | 3459 | |
| 15 | 83 3466 | 3472 | 3479 | 3485 | 3491 | 3498 | 3504 | 3510 | 3517 | 3523 | |
| 16 | 3530 | 3536 | 3542 | 3549 | 3555 | 3561 | 3568 | 3574 | 3581 | 3587 | |
| 17 | 3593 | 3600 | 3606 | 3612 | 3619 | 3625 | 3632 | 3638 | 3644 | 3651 | |
| 18 | 3657 | 3663 | 3670 | 3676 | 3682 | 3689 | 3695 | 3702 | 3708 | 3714 | |
| 19 | 3721 | 3727 | 3733 | 3740 | 3746 | 3753 | 3759 | 3765 | 3772 | 3778 | |
| 6820 | 83 3784 | 3791 | 3797 | 3803 | 3810 | 3816 | 3823 | 3829 | 3835 | 3842 | |
| 21 | 3848 | 3854 | 3861 | 3867 | 3874 | 3880 | 3886 | 3893 | 3899 | 3905 | |
| 22 | 3912 | 3918 | 3924 | 3931 | 3937 | 3944 | 3950 | 3956 | 3963 | 3969 | |
| 23 | 3975 | 3982 | 3988 | 3994 | 4001 | 4007 | 4014 | 4020 | 4026 | 4033 | |
| 24 | 4039 | 4045 | 4052 | 4058 | 4064 | 4071 | 4077 | 4084 | 4090 | 4096 | |
| 25 | 83 4103 | 4109 | 4115 | 4122 | 4128 | 4134 | 4141 | 4147 | 4154 | 4160 | |
| 26 | 4166 | 4173 | 4179 | 4185 | 4192 | 4198 | 4204 | 4211 | 4217 | 4224 | |
| 27 | 4230 | 4236 | 4243 | 4249 | 4255 | 4262 | 4268 | 4274 | 4281 | 4287 | |
| 28 | 4294 | 4300 | 4306 | 4313 | 4319 | 4325 | 4332 | 4338 | 4344 | 4351 | |
| 29 | 4357 | 4363 | 4370 | 4376 | 4383 | 4389 | 4395 | 4402 | 4408 | 4414 | |
| 6830 | 83 4421 | 4427 | 4433 | 4440 | 4446 | 4452 | 4459 | 4465 | 4472 | 4478 | |
| 31 | 4484 | 4491 | 4497 | 4503 | 4510 | 4516 | 4522 | 4529 | 4535 | 4542 | |
| 32 | 4548 | 4554 | 4561 | 4567 | 4573 | 4580 | 4586 | 4592 | 4599 | 4605 | |
| 33 | 4611 | 4618 | 4624 | 4630 | 4637 | 4643 | 4650 | 4656 | 4662 | 4669 | |
| 34 | 4675 | 4681 | 4688 | 4694 | 4700 | 4707 | 4713 | 4719 | 4726 | 4732 | |
| 35 | 83 4739 | 4745 | 4751 | 4758 | 4764 | 4770 | 4777 | 4783 | 4789 | 4796 | |
| 36 | 4802 | 4808 | 4815 | 4821 | 4827 | 4834 | 4840 | 4847 | 4853 | 4859 | |
| 37 | 4866 | 4872 | 4878 | 4885 | 4891 | 4897 | 4904 | 4910 | 4916 | 4923 | |
| 38 | 4929 | 4935 | 4942 | 4948 | 4955 | 4961 | 4967 | 4974 | 4980 | 4986 | |
| 39 | 4993 | 4999 | 5005 | 5012 | 5018 | 5024 | 5031 | 5037 | 5043 | 5050 | |
| 6840 | 83 5056 | 5062 | 5069 | 5075 | 5081 | 5088 | 5094 | 5101 | 5107 | 5113 | |
| 41 | 5120 | 5126 | 5132 | 5139 | 5145 | 5151 | 5158 | 5164 | 5170 | 5177 | |
| 42 | 5183 | 5189 | 5196 | 5202 | 5208 | 5215 | 5221 | 5227 | 5234 | 5240 | |
| 43 | 5247 | 5253 | 5259 | 5266 | 5272 | 5278 | 5285 | 5291 | 5297 | 5304 | |
| 44 | 5310 | 5316 | 5323 | 5329 | 5335 | 5342 | 5348 | 5354 | 5361 | 5367 | |
| 45 | 83 5373 | 5380 | 5386 | 5392 | 5399 | 5405 | 5412 | 5418 | 5424 | 5431 | |
| 46 | 5437 | 5443 | 5450 | 5456 | 5462 | 5469 | 5475 | 5481 | 5488 | 5494 | |
| 47 | 5500 | 5507 | 5513 | 5519 | 5526 | 5532 | 5538 | 5545 | 5551 | 5557 | |
| 48 | 5564 | 5570 | 5576 | 5583 | 5589 | 5595 | 5602 | 5608 | 5614 | 5621 | |
| 49 | 5627 | 5634 | 5640 | 5646 | 5653 | 5659 | 5665 | 5672 | 5678 | 5684 | |
| 6850 | 83 5691 | 5697 | 5703 | 5710 | 5716 | 5722 | 5729 | 5735 | 5741 | 5748 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 68000" | 18° 53' 20" | | | | 68000" | 18° 53' 20" | | S. 4685 | 496 | T. 732 | |
| 68100 | 18 55 0 | | | | 68100 | 18 53 30 | | | 496 | 733 | |
| 68200 | 18 56 40 | | | | 68200 | 18 53 40 | | | 496 | 733 | |
| 68300 | 18 58 20 | | | | 68300 | 18 53 50 | | | 495 | 734 | |
| 68400 | 19 0 0 | | | | 68400 | 18 54 0 | | | 495 | 734 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|--------------|----------|------|--------|------|-------|
| 6850 | 83 5691 | 5697 | 5703 | 5710 | 5716 | 5722 | 5729 | 5735 | 5741 | 5748 | |
| 51 | 5754 | 5760 | 5767 | 5773 | 5779 | 5786 | 5792 | 5798 | 5805 | 5811 | |
| 52 | 5817 | 5824 | 5830 | 5836 | 5843 | 5849 | 5855 | 5862 | 5868 | 5874 | |
| 53 | 5881 | 5887 | 5893 | 5900 | 5906 | 5912 | 5919 | 5925 | 5931 | 5938 | |
| 54 | 5944 | 5950 | 5957 | 5963 | 5969 | 5976 | 5982 | 5988 | 5995 | 6001 | |
| 55 | 83 6007 | 6014 | 6020 | 6026 | 6033 | 6039 | 6045 | 6052 | 6058 | 6064 | |
| 56 | 6071 | 6077 | 6083 | 6090 | 6096 | 6102 | 6109 | 6115 | 6121 | 6128 | |
| 57 | 6134 | 6140 | 6147 | 6153 | 6159 | 6166 | 6172 | 6178 | 6185 | 6191 | |
| 58 | 6197 | 6204 | 6210 | 6216 | 6223 | 6229 | 6235 | 6242 | 6248 | 6254 | |
| 59 | 6261 | 6267 | 6273 | 6280 | 6286 | 6292 | 6299 | 6305 | 6311 | 6318 | |
| 6860 | 83 6324 | 6330 | 6337 | 6343 | 6349 | 6356 | 6362 | 6368 | 6375 | 6381 | |
| 61 | 6387 | 6394 | 6400 | 6406 | 6413 | 6419 | 6425 | 6432 | 6438 | 6444 | 7 |
| 62 | 6451 | 6457 | 6463 | 6470 | 6476 | 6482 | 6489 | 6495 | 6501 | 6508 | 1 0.7 |
| 63 | 6514 | 6520 | 6527 | 6533 | 6539 | 6546 | 6552 | 6558 | 6565 | 6571 | 2 1.4 |
| 64 | 6577 | 6584 | 6590 | 6596 | 6603 | 6609 | 6615 | 6622 | 6628 | 6634 | 3 2.1 |
| 65 | 83 6641 | 6647 | 6653 | 6660 | 6666 | 6672 | 6678 | 6685 | 6691 | 6697 | 4 2.8 |
| 66 | 6704 | 6710 | 6716 | 6723 | 6729 | 6735 | 6742 | 6748 | 6754 | 6761 | 5 3.5 |
| 67 | 6767 | 6773 | 6780 | 6786 | 6792 | 6799 | 6805 | 6811 | 6818 | 6824 | 6 4.2 |
| 68 | 6830 | 6837 | 6843 | 6849 | 6856 | 6862 | 6868 | 6875 | 6881 | 6887 | 7 4.9 |
| 69 | 6894 | 6900 | 6906 | 6912 | 6919 | 6925 | 6931 | 6938 | 6944 | 6950 | 8 5.6 |
| 6870 | 83 6957 | 6963 | 6969 | 6976 | 6982 | 6988 | 6995 | 7001 | 7007 | 7014 | 9 6.3 |
| 71 | 7020 | 7026 | 7033 | 7039 | 7045 | 7052 | 7058 | 7064 | 7071 | 7077 | |
| 72 | 7083 | 7089 | 7096 | 7102 | 7108 | 7115 | 7121 | 7127 | 7134 | 7140 | |
| 73 | 7146 | 7153 | 7159 | 7165 | 7172 | 7178 | 7184 | 7191 | 7197 | 7203 | |
| 74 | 7210 | 7216 | 7222 | 7228 | 7235 | 7241 | 7247 | 7254 | 7260 | 7266 | |
| 75 | 83 7273 | 7279 | 7285 | 7292 | 7298 | 7304 | 7311 | 7317 | 7323 | 7330 | |
| 76 | 7336 | 7342 | 7349 | 7355 | 7361 | 7367 | 7374 | 7380 | 7386 | 7393 | |
| 77 | 7399 | 7405 | 7412 | 7418 | 7424 | 7431 | 7437 | 7443 | 7450 | 7456 | |
| 78 | 7462 | 7468 | 7475 | 7481 | 7487 | 7494 | 7500 | 7506 | 7513 | 7519 | |
| 79 | 7525 | 7532 | 7538 | 7544 | 7551 | 7557 | 7563 | 7570 | 7576 | 7582 | |
| 6880 | 83 7588 | 7595 | 7601 | 7607 | 7614 | 7620 | 7626 | 7633 | 7639 | 7645 | 6 |
| 81 | 7652 | 7658 | 7664 | 7670 | 7677 | 7683 | 7689 | 7696 | 7702 | 7708 | 1 0.6 |
| 82 | 7715 | 7721 | 7727 | 7734 | 7740 | 7746 | 7753 | 7759 | 7765 | 7771 | 2 1.2 |
| 83 | 7778 | 7784 | 7790 | 7797 | 7803 | 7809 | 7816 | 7822 | 7828 | 7835 | 3 1.8 |
| 84 | 7841 | 7847 | 7853 | 7860 | 7866 | 7872 | 7879 | 7885 | 7891 | 7898 | 4 2.4 |
| 85 | 83 7904 | 7910 | 7917 | 7923 | 7929 | 7935 | 7942 | 7948 | 7954 | 7961 | 5 3.0 |
| 86 | 7967 | 7973 | 7980 | 7986 | 7992 | 7999 | 8005 | 8011 | 8017 | 8024 | 6 3.6 |
| 87 | 8030 | 8036 | 8043 | 8049 | 8055 | 8062 | 8068 | 8074 | 8081 | 8087 | 7 4.2 |
| 88 | 8093 | 8099 | 8106 | 8112 | 8118 | 8125 | 8131 | 8137 | 8144 | 8150 | 8 4.8 |
| 89 | 8156 | 8162 | 8169 | 8175 | 8181 | 8188 | 8194 | 8200 | 8207 | 8213 | 9 5.4 |
| 6890 | 83 8219 | 8226 | 8232 | 8238 | 8244 | 8251 | 8257 | 8263 | 8270 | 8276 | |
| 91 | 8282 | 8289 | 8295 | 8301 | 8307 | 8314 | 8320 | 8326 | 8333 | 8339 | |
| 92 | 8345 | 8352 | 8358 | 8364 | 8370 | 8377 | 8383 | 8389 | 8396 | 8402 | |
| 93 | 8408 | 8415 | 8421 | 8427 | 8433 | 8440 | 8446 | 8452 | 8459 | 8465 | |
| 94 | 8471 | 8478 | 8484 | 8490 | 8496 | 8503 | 8509 | 8515 | 8522 | 8528 | |
| 95 | 83 8534 | 8541 | 8547 | 8553 | 8559 | 8566 | 8572 | 8578 | 8585 | 8591 | |
| 96 | 8597 | 8604 | 8610 | 8616 | 8622 | 8629 | 8635 | 8641 | 8648 | 8654 | |
| 97 | 8660 | 8667 | 8673 | 8679 | 8685 | 8692 | 8698 | 8704 | 8711 | 8717 | |
| 98 | 8723 | 8729 | 8736 | 8742 | 8748 | 8755 | 8761 | 8767 | 8774 | 8780 | |
| 99 | 8786 | 8792 | 8799 | 8805 | 8811 | 8818 | 8824 | 8830 | 8837 | 8843 | |
| 6900 | 83 8849 | 8855 | 8862 | 8868 | 8874 | 8881 | 8887 | 8893 | 8899 | 8906 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 68500 | = 19° 1' 40" | | | | 68500 | = 1° 54' 10" | S. 4.685 | 495 | T. 735 | | |
| 68600 | = 19 3 20 | | | | 68600 | = 1 54 20 | | 495 | 735 | | |
| 68700 | = 19 5 0 | | | | 68700 | = 1 54 30 | | 495 | 736 | | |
| 68800 | = 19 6 40 | | | | 68800 | = 1 54 40 | | 494 | 736 | | |
| 68900 | = 19 8 20 | | | | 68900 | = 1 54 50 | | 494 | 736 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|-------------|----------|------|--------|------|-------|
| 6900 | 83 8849 | 8855 | 8862 | 8868 | 8874 | 8881 | 8887 | 8893 | 8899 | 8906 | |
| 01 | 8912 | 8918 | 8925 | 8931 | 8937 | 8943 | 8950 | 8956 | 8962 | 8969 | |
| 02 | 8975 | 8981 | 8988 | 8994 | 9000 | 9006 | 9013 | 9019 | 9025 | 9032 | |
| 03 | 9038 | 9044 | 9050 | 9057 | 9063 | 9069 | 9076 | 9082 | 9088 | 9094 | |
| 04 | 9101 | 9107 | 9113 | 9120 | 9126 | 9132 | 9139 | 9145 | 9151 | 9157 | |
| 05 | 83 9164 | 9170 | 9176 | 9183 | 9189 | 9195 | 9201 | 9208 | 9214 | 9220 | |
| 06 | 9227 | 9233 | 9239 | 9245 | 9252 | 9258 | 9264 | 9271 | 9277 | 9283 | |
| 07 | 9289 | 9296 | 9302 | 9308 | 9315 | 9321 | 9327 | 9333 | 9340 | 9346 | |
| 08 | 9352 | 9359 | 9365 | 9371 | 9377 | 9384 | 9390 | 9396 | 9403 | 9409 | |
| 09 | 9415 | 9421 | 9428 | 9434 | 9440 | 9447 | 9453 | 9459 | 9465 | 9472 | |
| 6910 | 83 9478 | 9484 | 9491 | 9497 | 9503 | 9509 | 9516 | 9522 | 9528 | 9535 | |
| 11 | 9541 | 9547 | 9553 | 9560 | 9566 | 9572 | 9579 | 9585 | 9591 | 9597 | 7 |
| 12 | 9604 | 9610 | 9616 | 9623 | 9629 | 9635 | 9641 | 9648 | 9654 | 9660 | 1 0.7 |
| 13 | 9667 | 9673 | 9679 | 9685 | 9692 | 9698 | 9704 | 9711 | 9717 | 9723 | 2 1.4 |
| 14 | 9729 | 9736 | 9742 | 9748 | 9754 | 9761 | 9767 | 9773 | 9780 | 9786 | 3 2.1 |
| 15 | 83 9792 | 9798 | 9805 | 9811 | 9817 | 9824 | 9830 | 9836 | 9842 | 9849 | 4 2.8 |
| 16 | 9855 | 9861 | 9868 | 9874 | 9880 | 9886 | 9893 | 9899 | 9905 | 9911 | 5 3.5 |
| 17 | 9918 | 9924 | 9930 | 9937 | 9943 | 9949 | 9955 | 9962 | 9968 | 9974 | 6 4.2 |
| 18 | 9981 | 9987 | 9993 | 9999 | 0006 | 0012 | 0018 | 0024 | 0031 | 0037 | 7 4.9 |
| 19 | 84 0043 | 0050 | 0056 | 0062 | 0068 | 0075 | 0081 | 0087 | 0094 | 0100 | 8 5.6 |
| 6920 | 84 0106 | 0112 | 0119 | 0125 | 0131 | 0137 | 0144 | 0150 | 0156 | 0163 | 9 6.3 |
| 21 | 0169 | 0175 | 0181 | 0188 | 0194 | 0200 | 0206 | 0213 | 0219 | 0225 | |
| 22 | 0232 | 0238 | 0244 | 0250 | 0257 | 0263 | 0269 | 0276 | 0282 | 0288 | |
| 23 | 0294 | 0301 | 0307 | 0313 | 0319 | 0326 | 0332 | 0338 | 0345 | 0351 | |
| 24 | 0357 | 0363 | 0370 | 0376 | 0382 | 0388 | 0395 | 0401 | 0407 | 0414 | |
| 25 | 84 0420 | 0426 | 0432 | 0439 | 0445 | 0451 | 0457 | 0464 | 0470 | 0476 | |
| 26 | 0482 | 0489 | 0495 | 0501 | 0508 | 0514 | 0520 | 0526 | 0533 | 0539 | |
| 27 | 0545 | 0551 | 0558 | 0564 | 0570 | 0577 | 0583 | 0589 | 0595 | 0602 | |
| 28 | 0608 | 0614 | 0620 | 0627 | 0633 | 0639 | 0645 | 0652 | 0658 | 0664 | |
| 29 | 0671 | 0677 | 0683 | 0689 | 0696 | 0702 | 0708 | 0714 | 0721 | 0727 | |
| 6930 | 84 0733 | 0740 | 0746 | 0752 | 0758 | 0765 | 0771 | 0777 | 0783 | 0790 | |
| 31 | 0796 | 0802 | 0808 | 0815 | 0821 | 0827 | 0833 | 0840 | 0846 | 0852 | 6 |
| 32 | 0859 | 0865 | 0871 | 0877 | 0884 | 0890 | 0896 | 0902 | 0909 | 0915 | 1 0.6 |
| 33 | 0921 | 0927 | 0934 | 0940 | 0946 | 0953 | 0959 | 0965 | 0971 | 0978 | 2 1.2 |
| 34 | 0984 | 0990 | 0996 | 1003 | 1009 | 1015 | 1021 | 1028 | 1034 | 1040 | 3 1.8 |
| 35 | 84 1046 | 1053 | 1059 | 1065 | 1072 | 1078 | 1084 | 1090 | 1097 | 1103 | 4 2.4 |
| 36 | 1109 | 1115 | 1122 | 1128 | 1134 | 1140 | 1147 | 1153 | 1159 | 1165 | 5 3.0 |
| 37 | 1172 | 1178 | 1184 | 1190 | 1197 | 1203 | 1209 | 1216 | 1222 | 1228 | 6 3.6 |
| 38 | 1234 | 1241 | 1247 | 1253 | 1259 | 1266 | 1272 | 1278 | 1284 | 1291 | 7 4.2 |
| 39 | 1297 | 1303 | 1309 | 1316 | 1322 | 1328 | 1334 | 1341 | 1347 | 1353 | 8 4.8 |
| 6940 | 84 1359 | 1366 | 1372 | 1378 | 1385 | 1391 | 1397 | 1403 | 1410 | 1416 | 9 5.4 |
| 41 | 1422 | 1428 | 1435 | 1441 | 1447 | 1453 | 1460 | 1466 | 1472 | 1478 | |
| 42 | 1485 | 1491 | 1497 | 1503 | 1510 | 1516 | 1522 | 1528 | 1535 | 1541 | |
| 43 | 1547 | 1553 | 1560 | 1566 | 1572 | 1578 | 1585 | 1591 | 1597 | 1603 | |
| 44 | 1610 | 1616 | 1622 | 1628 | 1635 | 1641 | 1647 | 1653 | 1660 | 1666 | |
| 45 | 84 1672 | 1679 | 1685 | 1691 | 1697 | 1704 | 1710 | 1716 | 1722 | 1729 | |
| 46 | 1735 | 1741 | 1747 | 1754 | 1760 | 1766 | 1772 | 1779 | 1785 | 1791 | |
| 47 | 1797 | 1804 | 1810 | 1816 | 1822 | 1829 | 1835 | 1841 | 1847 | 1854 | |
| 48 | 1860 | 1866 | 1872 | 1879 | 1885 | 1891 | 1897 | 1904 | 1910 | 1916 | |
| 49 | 1922 | 1929 | 1935 | 1941 | 1947 | 1954 | 1960 | 1966 | 1972 | 1979 | |
| 6950 | 84 1985 | 1991 | 1997 | 2004 | 2010 | 2016 | 2022 | 2029 | 2035 | 2041 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 69000 | = 19° 10' 0" | | | | 69000 | = 1° 55' 0" | S. 4,685 | 494 | T. 737 | | |
| 69100 | = 19 11 40 | | | | 69100 | = 1 55 10 | | 494 | 737 | | |
| 69200 | = 19 13 20 | | | | 69200 | = 1 55 20 | | 493 | 738 | | |
| 69300 | = 19 15 0 | | | | 69300 | = 1 55 30 | | 493 | 738 | | |
| 69400 | = 19 16 40 | | | | 69400 | = 1 55 40 | | 493 | 739 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|------|---------------------|------|------|------|------|---------------------|
| 6950 | 84 1985 | 1991 | 1997 | 2004 | 2010 | 2016 | 2022 | 2029 | 2035 | 2041 | |
| 51 | 2047 | 2054 | 2060 | 2066 | 2072 | 2079 | 2085 | 2091 | 2097 | 2104 | |
| 52 | 2110 | 2116 | 2122 | 2129 | 2135 | 2141 | 2147 | 2153 | 2160 | 2166 | |
| 53 | 2172 | 2178 | 2185 | 2191 | 2197 | 2203 | 2210 | 2216 | 2222 | 2228 | |
| 54 | 2235 | 2241 | 2247 | 2253 | 2260 | 2266 | 2272 | 2278 | 2285 | 2291 | |
| 55 | 84 2297 | 2303 | 2310 | 2316 | 2322 | 2328 | 2335 | 2341 | 2347 | 2353 | |
| 56 | 2360 | 2366 | 2372 | 2378 | 2385 | 2391 | 2397 | 2403 | 2410 | 2416 | |
| 57 | 2422 | 2428 | 2434 | 2441 | 2447 | 2453 | 2459 | 2466 | 2472 | 2478 | |
| 58 | 2484 | 2491 | 2497 | 2503 | 2509 | 2516 | 2522 | 2528 | 2534 | 2541 | |
| 59 | 2547 | 2553 | 2559 | 2566 | 2572 | 2578 | 2584 | 2591 | 2597 | 2603 | |
| 6960 | 84 2609 | 2615 | 2622 | 2628 | 2634 | 2640 | 2647 | 2653 | 2659 | 2665 | |
| 61 | 2672 | 2678 | 2684 | 2690 | 2697 | 2703 | 2709 | 2715 | 2722 | 2728 | 7 |
| 62 | 2734 | 2740 | 2746 | 2753 | 2759 | 2765 | 2771 | 2778 | 2784 | 2790 | 1 0.7 |
| 63 | 2796 | 2803 | 2809 | 2815 | 2821 | 2828 | 2834 | 2840 | 2846 | 2853 | 2 1.4 |
| 64 | 2859 | 2865 | 2871 | 2877 | 2884 | 2890 | 2896 | 2902 | 2909 | 2915 | 3 2.1 |
| 65 | 84 2921 | 2927 | 2934 | 2940 | 2946 | 2952 | 2959 | 2965 | 2971 | 2977 | 4 2.8 |
| 66 | 2983 | 2990 | 2996 | 3002 | 3008 | 3015 | 3021 | 3027 | 3033 | 3040 | 5 3.5 |
| 67 | 3046 | 3052 | 3058 | 3065 | 3071 | 3077 | 3083 | 3089 | 3096 | 3102 | 6 4.2 |
| 68 | 3108 | 3114 | 3121 | 3127 | 3133 | 3139 | 3146 | 3152 | 3158 | 3164 | 7 4.9 |
| 69 | 3170 | 3177 | 3183 | 3189 | 3195 | 3202 | 3208 | 3214 | 3220 | 3227 | 8 5.6 |
| 6970 | 84 3233 | 3239 | 3245 | 3251 | 3258 | 3264 | 3270 | 3276 | 3283 | 3289 | 9 6.3 |
| 71 | 3295 | 3301 | 3308 | 3314 | 3320 | 3326 | 3332 | 3339 | 3345 | 3351 | |
| 72 | 3357 | 3364 | 3370 | 3376 | 3382 | 3389 | 3395 | 3401 | 3407 | 3413 | |
| 73 | 3420 | 3426 | 3432 | 3438 | 3445 | 3451 | 3457 | 3463 | 3469 | 3476 | |
| 74 | 3482 | 3488 | 3494 | 3501 | 3507 | 3513 | 3519 | 3526 | 3532 | 3538 | |
| 75 | 84 3544 | 3550 | 3557 | 3563 | 3569 | 3575 | 3582 | 3588 | 3594 | 3600 | |
| 76 | 3606 | 3613 | 3619 | 3625 | 3631 | 3638 | 3644 | 3650 | 3656 | 3662 | |
| 77 | 3669 | 3675 | 3681 | 3687 | 3694 | 3700 | 3706 | 3712 | 3719 | 3725 | |
| 78 | 3731 | 3737 | 3743 | 3750 | 3756 | 3762 | 3768 | 3775 | 3781 | 3787 | |
| 79 | 3793 | 3799 | 3806 | 3812 | 3818 | 3824 | 3831 | 3837 | 3843 | 3849 | |
| 6980 | 84 3855 | 3862 | 3868 | 3874 | 3880 | 3887 | 3893 | 3899 | 3905 | 3911 | 6 |
| 81 | 3918 | 3924 | 3930 | 3936 | 3943 | 3949 | 3955 | 3961 | 3967 | 3974 | 1 0.6 |
| 82 | 3980 | 3986 | 3992 | 3999 | 4005 | 4011 | 4017 | 4023 | 4030 | 4036 | 2 1.2 |
| 83 | 4042 | 4048 | 4054 | 4061 | 4067 | 4073 | 4079 | 4086 | 4092 | 4098 | 3 1.8 |
| 84 | 4104 | 4110 | 4117 | 4123 | 4129 | 4135 | 4142 | 4148 | 4154 | 4160 | 4 2.4 |
| 85 | 84 4166 | 4173 | 4179 | 4185 | 4191 | 4197 | 4204 | 4210 | 4216 | 4222 | 5 3.0 |
| 86 | 4229 | 4235 | 4241 | 4247 | 4253 | 4260 | 4266 | 4272 | 4278 | 4285 | 6 3.6 |
| 87 | 4291 | 4297 | 4303 | 4309 | 4316 | 4322 | 4328 | 4334 | 4340 | 4347 | 7 4.2 |
| 88 | 4353 | 4359 | 4365 | 4372 | 4378 | 4384 | 4390 | 4396 | 4403 | 4409 | 8 4.8 |
| 89 | 4415 | 4421 | 4427 | 4434 | 4440 | 4446 | 4452 | 4459 | 4465 | 4471 | 9 5.4 |
| 6990 | 84 4477 | 4483 | 4490 | 4496 | 4502 | 4508 | 4514 | 4521 | 4527 | 4533 | |
| 91 | 4539 | 4546 | 4552 | 4558 | 4564 | 4570 | 4577 | 4583 | 4589 | 4595 | |
| 92 | 4601 | 4608 | 4614 | 4620 | 4626 | 4632 | 4639 | 4645 | 4651 | 4657 | |
| 93 | 4664 | 4670 | 4676 | 4682 | 4688 | 4695 | 4701 | 4707 | 4713 | 4719 | |
| 94 | 4726 | 4732 | 4738 | 4744 | 4750 | 4756 | 4762 | 4769 | 4775 | 4782 | |
| 95 | 84 4788 | 4794 | 4800 | 4806 | 4813 | 4819 | 4825 | 4831 | 4837 | 4844 | |
| 96 | 4850 | 4856 | 4862 | 4868 | 4875 | 4881 | 4887 | 4893 | 4899 | 4906 | |
| 97 | 4912 | 4918 | 4924 | 4930 | 4937 | 4943 | 4949 | 4955 | 4962 | 4968 | |
| 98 | 4974 | 4980 | 4986 | 4993 | 4999 | 5005 | 5011 | 5017 | 5024 | 5030 | |
| 99 | 5036 | 5042 | 5048 | 5055 | 5061 | 5067 | 5073 | 5079 | 5086 | 5092 | |
| 7000 | 84 5098 | 5104 | 5110 | 5117 | 5123 | 5129 | 5135 | 5141 | 5148 | 5154 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 69500 | = 19° 18' 20" | | | | | 69500' = 1° 55' 50" | | | | | S. 4.685 493 T. 739 |
| 69600 | = 19 20 0 | | | | | 69600 = 1 56 0 | | | | | 492 740 |
| 69700 | = 19 21 40 | | | | | 69700 = 1 56 10 | | | | | 492 740 |
| 69800 | = 19 23 20 | | | | | 69800 = 1 56 20 | | | | | 492 741 |
| 69900 | = 19 25 0 | | | | | 69900 = 1 56 30 | | | | | 492 741 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|---------------------|------|------|---------------------|------|------|------|-----|
| 7000 | 84 5098 | 5104 | 5110 | 5117 | 5123 | 5129 | 5135 | 5141 | 5148 | 5154 | |
| 01 | 5160 | 5166 | 5172 | 5179 | 5185 | 5191 | 5197 | 5203 | 5210 | 5216 | |
| 02 | 5222 | 5228 | 5235 | 5241 | 5247 | 5253 | 5259 | 5266 | 5272 | 5278 | |
| 03 | 5284 | 5290 | 5297 | 5303 | 5309 | 5315 | 5321 | 5328 | 5334 | 5340 | |
| 04 | 5346 | 5352 | 5359 | 5365 | 5371 | 5377 | 5383 | 5390 | 5396 | 5402 | |
| 05 | 84 5408 | 5414 | 5421 | 5427 | 5433 | 5439 | 5445 | 5452 | 5458 | 5464 | |
| 06 | 5470 | 5476 | 5483 | 5489 | 5495 | 5501 | 5507 | 5514 | 5520 | 5526 | |
| 07 | 5532 | 5538 | 5545 | 5551 | 5557 | 5563 | 5569 | 5576 | 5582 | 5588 | |
| 08 | 5594 | 5600 | 5606 | 5613 | 5619 | 5625 | 5631 | 5637 | 5644 | 5650 | |
| 09 | 5656 | 5662 | 5668 | 5675 | 5681 | 5687 | 5693 | 5699 | 5706 | 5712 | |
| 7010 | 84 5718 | 5724 | 5730 | 5737 | 5743 | 5749 | 5755 | 5761 | 5768 | 5774 | |
| 11 | 5780 | 5786 | 5792 | 5799 | 5805 | 5811 | 5817 | 5823 | 5830 | 5836 | |
| 12 | 5842 | 5848 | 5854 | 5860 | 5867 | 5873 | 5879 | 5885 | 5891 | 5898 | |
| 13 | 5904 | 5910 | 5916 | 5922 | 5929 | 5935 | 5941 | 5947 | 5953 | 5960 | |
| 14 | 5966 | 5972 | 5978 | 5984 | 5991 | 5997 | 6003 | 6009 | 6015 | 6021 | |
| 15 | 84 6028 | 6034 | 6040 | 6046 | 6052 | 6059 | 6065 | 6071 | 6077 | 6083 | |
| 16 | 6090 | 6096 | 6102 | 6108 | 6114 | 6121 | 6127 | 6133 | 6139 | 6145 | |
| 17 | 6151 | 6158 | 6164 | 6170 | 6176 | 6182 | 6189 | 6195 | 6201 | 6207 | |
| 18 | 6213 | 6220 | 6226 | 6232 | 6238 | 6244 | 6250 | 6257 | 6263 | 6269 | |
| 19 | 6275 | 6281 | 6288 | 6294 | 6300 | 6306 | 6312 | 6319 | 6325 | 6331 | |
| 7020 | 84 6337 | 6343 | 6349 | 6356 | 6362 | 6368 | 6374 | 6380 | 6387 | 6393 | |
| 21 | 6399 | 6405 | 6411 | 6418 | 6424 | 6430 | 6436 | 6442 | 6448 | 6455 | |
| 22 | 6461 | 6467 | 6473 | 6479 | 6486 | 6492 | 6498 | 6504 | 6510 | 6516 | |
| 23 | 6523 | 6529 | 6535 | 6541 | 6547 | 6554 | 6560 | 6566 | 6572 | 6578 | |
| 24 | 6585 | 6591 | 6597 | 6603 | 6609 | 6615 | 6622 | 6628 | 6634 | 6640 | |
| 25 | 84 6646 | 6653 | 6659 | 6665 | 6671 | 6677 | 6683 | 6690 | 6696 | 6702 | |
| 26 | 6708 | 6714 | 6721 | 6727 | 6733 | 6739 | 6745 | 6751 | 6758 | 6764 | |
| 27 | 6770 | 6776 | 6782 | 6788 | 6795 | 6801 | 6807 | 6813 | 6819 | 6826 | |
| 28 | 6832 | 6838 | 6844 | 6850 | 6856 | 6863 | 6869 | 6875 | 6881 | 6887 | |
| 29 | 6894 | 6900 | 6906 | 6912 | 6918 | 6924 | 6931 | 6937 | 6943 | 6949 | |
| 7030 | 84 6955 | 6962 | 6968 | 6974 | 6980 | 6986 | 6992 | 6999 | 7005 | 7011 | |
| 31 | 7017 | 7023 | 7029 | 7036 | 7042 | 7048 | 7054 | 7060 | 7067 | 7073 | |
| 32 | 7079 | 7085 | 7091 | 7097 | 7104 | 7110 | 7116 | 7122 | 7128 | 7134 | |
| 33 | 7141 | 7147 | 7153 | 7159 | 7165 | 7171 | 7178 | 7184 | 7190 | 7196 | |
| 34 | 7202 | 7209 | 7215 | 7221 | 7227 | 7233 | 7239 | 7246 | 7252 | 7258 | |
| 35 | 84 7264 | 7270 | 7276 | 7283 | 7289 | 7295 | 7301 | 7307 | 7313 | 7320 | |
| 36 | 7326 | 7332 | 7338 | 7344 | 7351 | 7357 | 7363 | 7369 | 7375 | 7381 | |
| 37 | 7388 | 7394 | 7400 | 7406 | 7412 | 7418 | 7425 | 7431 | 7437 | 7443 | |
| 38 | 7449 | 7455 | 7462 | 7468 | 7474 | 7480 | 7486 | 7492 | 7499 | 7505 | |
| 39 | 7511 | 7517 | 7523 | 7529 | 7536 | 7542 | 7548 | 7554 | 7560 | 7566 | |
| 7040 | 84 7573 | 7579 | 7585 | 7591 | 7597 | 7604 | 7610 | 7616 | 7622 | 7628 | |
| 41 | 7634 | 7641 | 7647 | 7653 | 7659 | 7665 | 7671 | 7678 | 7684 | 7690 | |
| 42 | 7696 | 7702 | 7708 | 7715 | 7721 | 7727 | 7733 | 7739 | 7745 | 7752 | |
| 43 | 7758 | 7764 | 7770 | 7776 | 7782 | 7789 | 7795 | 7801 | 7807 | 7813 | |
| 44 | 7819 | 7826 | 7832 | 7838 | 7844 | 7850 | 7856 | 7863 | 7869 | 7875 | |
| 45 | 84 7881 | 7887 | 7893 | 7899 | 7906 | 7912 | 7918 | 7924 | 7930 | 7936 | |
| 46 | 7943 | 7949 | 7955 | 7961 | 7967 | 7973 | 7980 | 7986 | 7992 | 7998 | |
| 47 | 8004 | 8010 | 8017 | 8023 | 8029 | 8035 | 8041 | 8047 | 8054 | 8060 | |
| 48 | 8066 | 8072 | 8078 | 8084 | 8091 | 8097 | 8103 | 8109 | 8115 | 8121 | |
| 49 | 8128 | 8134 | 8140 | 8146 | 8152 | 8158 | 8164 | 8171 | 8177 | 8183 | |
| 7050 | 84 8189 | 8195 | 8201 | 8208 | 8214 | 8220 | 8226 | 8232 | 8238 | 8245 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 70000" | = 19° 26' 40" | | | 70000" = 1° 56' 40" | | | S. 4,685 491 T. 742 | | | | |
| 70100 | = 19 28 20 | | | 70100 = 1 56 50 | | | 491 742 | | | | |
| 70200 | = 19 30 0 | | | 70200 = 1 57 0 | | | 491 743 | | | | |
| 70300 | = 19 31 40 | | | 70300 = 1 57 10 | | | 491 743 | | | | |
| 70400 | = 19 33 20 | | | 70400 = 1 57 20 | | | 491 744 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|--------------------|------|------|----------|------|--------|-------|
| 7050 | 84 8189 | 8195 | 8201 | 8208 | 8214 | 8220 | 8226 | 8232 | 8238 | 8245 | |
| 51 | 8251 | 8257 | 8263 | 8269 | 8275 | 8282 | 8288 | 8294 | 8300 | 8306 | |
| 52 | 8312 | 8318 | 8325 | 8331 | 8337 | 8343 | 8349 | 8355 | 8362 | 8368 | |
| 53 | 8374 | 8380 | 8386 | 8392 | 8399 | 8405 | 8411 | 8417 | 8423 | 8429 | |
| 54 | 8435 | 8442 | 8448 | 8454 | 8460 | 8466 | 8472 | 8479 | 8485 | 8491 | |
| 55 | 8497 | 8503 | 8509 | 8515 | 8522 | 8528 | 8534 | 8540 | 8546 | 8552 | |
| 56 | 8559 | 8565 | 8571 | 8577 | 8583 | 8589 | 8596 | 8602 | 8608 | 8614 | |
| 57 | 8620 | 8626 | 8632 | 8639 | 8645 | 8651 | 8657 | 8663 | 8669 | 8676 | |
| 58 | 8682 | 8688 | 8694 | 8700 | 8706 | 8712 | 8719 | 8725 | 8731 | 8737 | |
| 59 | 8743 | 8749 | 8755 | 8762 | 8768 | 8774 | 8780 | 8786 | 8792 | 8799 | |
| 7060 | 84 8805 | 8811 | 8817 | 8823 | 8829 | 8835 | 8842 | 8848 | 8854 | 8860 | |
| 61 | 8866 | 8872 | 8879 | 8885 | 8891 | 8897 | 8903 | 8909 | 8915 | 8922 | 7 |
| 62 | 8928 | 8934 | 8940 | 8946 | 8952 | 8958 | 8965 | 8971 | 8977 | 8983 | 1 0.7 |
| 63 | 8989 | 8995 | 9002 | 9008 | 9014 | 9020 | 9026 | 9032 | 9038 | 9045 | 2 1.4 |
| 64 | 9051 | 9057 | 9063 | 9069 | 9075 | 9081 | 9088 | 9094 | 9100 | 9106 | 3 2.1 |
| 65 | 84 9112 | 9118 | 9124 | 9131 | 9137 | 9143 | 9149 | 9155 | 9161 | 9167 | 4 2.8 |
| 66 | 9174 | 9180 | 9186 | 9192 | 9198 | 9204 | 9211 | 9217 | 9223 | 9229 | 5 3.5 |
| 67 | 9235 | 9241 | 9247 | 9254 | 9260 | 9266 | 9272 | 9278 | 9284 | 9290 | 6 4.2 |
| 68 | 9297 | 9303 | 9309 | 9315 | 9321 | 9327 | 9333 | 9340 | 9346 | 9352 | 7 4.9 |
| 69 | 9358 | 9364 | 9370 | 9376 | 9383 | 9389 | 9395 | 9401 | 9407 | 9413 | 8 5.6 |
| 7070 | 84 9419 | 9426 | 9432 | 9438 | 9444 | 9450 | 9456 | 9462 | 9469 | 9475 | 9 6.3 |
| 71 | 9481 | 9487 | 9493 | 9499 | 9505 | 9512 | 9518 | 9524 | 9530 | 9536 | |
| 72 | 9542 | 9548 | 9555 | 9561 | 9567 | 9573 | 9579 | 9585 | 9591 | 9598 | |
| 73 | 9604 | 9610 | 9616 | 9622 | 9628 | 9634 | 9640 | 9647 | 9653 | 9659 | |
| 74 | 9665 | 9671 | 9677 | 9683 | 9690 | 9696 | 9702 | 9708 | 9714 | 9720 | |
| 75 | 84 9726 | 9733 | 9739 | 9745 | 9751 | 9757 | 9763 | 9769 | 9776 | 9782 | |
| 76 | 9788 | 9794 | 9800 | 9806 | 9812 | 9819 | 9825 | 9831 | 9837 | 9843 | |
| 77 | 9849 | 9855 | 9861 | 9868 | 9874 | 9880 | 9886 | 9892 | 9898 | 9904 | |
| 78 | 9911 | 9917 | 9923 | 9929 | 9935 | 9941 | 9947 | 9954 | 9960 | 9966 | |
| 79 | 9972 | 9978 | 9984 | 9990 | 9996 | 0003 | 0009 | 0015 | 0021 | 0027 | |
| 7080 | 85 0033 | 0039 | 0046 | 0052 | 0058 | 0064 | 0070 | 0076 | 0082 | 0088 | 6 |
| 81 | 0095 | 0101 | 0107 | 0113 | 0119 | 0125 | 0131 | 0138 | 0144 | 0150 | 1 0.6 |
| 82 | 0156 | 0162 | 0168 | 0174 | 0180 | 0187 | 0193 | 0199 | 0205 | 0211 | 2 1.2 |
| 83 | 0217 | 0223 | 0230 | 0236 | 0242 | 0248 | 0254 | 0260 | 0266 | 0272 | 3 1.8 |
| 84 | 0279 | 0285 | 0291 | 0297 | 0303 | 0309 | 0315 | 0321 | 0328 | 0334 | 4 2.4 |
| 85 | 85 0340 | 0346 | 0352 | 0358 | 0364 | 0371 | 0377 | 0383 | 0389 | 0395 | 5 3.0 |
| 86 | 0401 | 0407 | 0413 | 0420 | 0426 | 0432 | 0438 | 0444 | 0450 | 0456 | 6 3.6 |
| 87 | 0462 | 0469 | 0475 | 0481 | 0487 | 0493 | 0499 | 0505 | 0511 | 0518 | 7 4.2 |
| 88 | 0524 | 0530 | 0536 | 0542 | 0548 | 0554 | 0560 | 0567 | 0573 | 0579 | 8 4.8 |
| 89 | 0585 | 0591 | 0597 | 0603 | 0609 | 0616 | 0622 | 0628 | 0634 | 0640 | 9 5.4 |
| 7090 | 85 0646 | 0652 | 0658 | 0665 | 0671 | 0677 | 0683 | 0689 | 0695 | 0701 | |
| 91 | 0707 | 0714 | 0720 | 0726 | 0732 | 0738 | 0744 | 0750 | 0756 | 0763 | |
| 92 | 0769 | 0775 | 0781 | 0787 | 0793 | 0799 | 0805 | 0812 | 0818 | 0824 | |
| 93 | 0830 | 0836 | 0842 | 0848 | 0854 | 0861 | 0867 | 0873 | 0879 | 0885 | |
| 94 | 0891 | 0897 | 0903 | 0910 | 0916 | 0922 | 0928 | 0934 | 0940 | 0946 | |
| 95 | 85 0952 | 0959 | 0965 | 0971 | 0977 | 0983 | 0989 | 0995 | 1001 | 1007 | |
| 96 | 1014 | 1020 | 1026 | 1032 | 1038 | 1044 | 1050 | 1056 | 1063 | 1069 | |
| 97 | 1075 | 1081 | 1087 | 1093 | 1099 | 1105 | 1112 | 1118 | 1124 | 1130 | |
| 98 | 1136 | 1142 | 1148 | 1154 | 1160 | 1167 | 1173 | 1179 | 1185 | 1191 | |
| 99 | 1197 | 1203 | 1209 | 1216 | 1222 | 1228 | 1234 | 1240 | 1246 | 1252 | |
| 7100 | 85 1258 | 1264 | 1271 | 1277 | 1283 | 1289 | 1295 | 1301 | 1307 | 1313 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 70500" = 19° 35' 0" | | | | 7050" = 1° 57' 30" | | | S. 4.685 | 490 | T. 744 | |
| | 70600" = 19 36 40 | | | | 7060" = 1 57 40 | | | | 490 | 745 | |
| | 70700" = 19 38 20 | | | | 7070" = 1 57 50 | | | | 490 | 745 | |
| | 70800" = 19 40 0 | | | | 7080" = 1 58 0 | | | | 490 | 745 | |
| | 70900" = 19 41 40 | | | | 7090" = 1 58 10 | | | | 489 | 746 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|------|--------|-------------|----------|------|--------|-------|
| 7100 | 85 1258 | 1264 | 1271 | 1277 | 1283 | 1289 | 1295 | 1301 | 1307 | 1313 | |
| 01 | 1320 | 1326 | 1332 | 1338 | 1344 | 1350 | 1356 | 1362 | 1368 | 1375 | |
| 02 | 1381 | 1387 | 1393 | 1399 | 1405 | 1411 | 1417 | 1423 | 1430 | 1436 | |
| 03 | 1442 | 1448 | 1454 | 1460 | 1466 | 1472 | 1478 | 1485 | 1491 | 1497 | |
| 04 | 1503 | 1509 | 1515 | 1521 | 1527 | 1534 | 1540 | 1546 | 1552 | 1558 | |
| 05 | 85 1564 | 1570 | 1576 | 1582 | 1589 | 1595 | 1601 | 1607 | 1613 | 1619 | |
| 06 | 1625 | 1631 | 1637 | 1644 | 1650 | 1656 | 1662 | 1668 | 1674 | 1680 | |
| 07 | 1686 | 1692 | 1699 | 1705 | 1711 | 1717 | 1723 | 1729 | 1735 | 1741 | |
| 08 | 1747 | 1754 | 1760 | 1766 | 1772 | 1778 | 1784 | 1790 | 1796 | 1802 | |
| 09 | 1809 | 1815 | 1821 | 1827 | 1833 | 1839 | 1845 | 1851 | 1857 | 1863 | |
| 7110 | 85 1870 | 1876 | 1882 | 1888 | 1894 | 1900 | 1906 | 1912 | 1918 | 1925 | |
| 11 | 1931 | 1937 | 1943 | 1949 | 1955 | 1961 | 1967 | 1973 | 1980 | 1986 | 7 |
| 12 | 1992 | 1998 | 2004 | 2010 | 2016 | 2022 | 2028 | 2034 | 2041 | 2047 | 1 0.7 |
| 13 | 2053 | 2059 | 2065 | 2071 | 2077 | 2083 | 2089 | 2096 | 2102 | 2108 | 2 1.4 |
| 14 | 2114 | 2120 | 2126 | 2132 | 2138 | 2144 | 2150 | 2157 | 2163 | 2169 | 3 2.1 |
| 15 | 85 2175 | 2181 | 2187 | 2193 | 2199 | 2205 | 2212 | 2218 | 2224 | 2230 | 4 2.8 |
| 16 | 2236 | 2242 | 2248 | 2254 | 2260 | 2266 | 2273 | 2279 | 2285 | 2291 | 5 3.5 |
| 17 | 2297 | 2303 | 2309 | 2315 | 2321 | 2327 | 2334 | 2340 | 2346 | 2352 | 6 4.2 |
| 18 | 2358 | 2364 | 2370 | 2376 | 2382 | 2388 | 2395 | 2401 | 2407 | 2413 | 7 4.9 |
| 19 | 2419 | 2425 | 2431 | 2437 | 2443 | 2449 | 2456 | 2462 | 2468 | 2474 | 8 5.6 |
| 7120 | 85 2480 | 2486 | 2492 | 2498 | 2504 | 2510 | 2517 | 2523 | 2529 | 2535 | 9 6.3 |
| 21 | 2541 | 2547 | 2553 | 2559 | 2565 | 2571 | 2578 | 2584 | 2590 | 2596 | |
| 22 | 2602 | 2608 | 2614 | 2620 | 2626 | 2632 | 2639 | 2645 | 2651 | 2657 | |
| 23 | 2663 | 2669 | 2675 | 2681 | 2687 | 2693 | 2700 | 2706 | 2712 | 2718 | |
| 24 | 2724 | 2730 | 2736 | 2742 | 2748 | 2754 | 2760 | 2767 | 2773 | 2779 | |
| 25 | 85 2785 | 2791 | 2797 | 2803 | 2809 | 2815 | 2821 | 2828 | 2834 | 2840 | |
| 26 | 2846 | 2852 | 2858 | 2864 | 2870 | 2876 | 2882 | 2888 | 2895 | 2901 | |
| 27 | 2907 | 2913 | 2919 | 2925 | 2931 | 2937 | 2943 | 2949 | 2956 | 2962 | |
| 28 | 2968 | 2974 | 2980 | 2986 | 2992 | 2998 | 3004 | 3010 | 3016 | 3023 | |
| 29 | 3029 | 3035 | 3041 | 3047 | 3053 | 3059 | 3065 | 3071 | 3077 | 3083 | |
| 7130 | 85 3090 | 3096 | 3102 | 3108 | 3114 | 3120 | 3126 | 3132 | 3138 | 3144 | |
| 31 | 3150 | 3157 | 3163 | 3169 | 3175 | 3181 | 3187 | 3193 | 3199 | 3205 | 6 |
| 32 | 3211 | 3217 | 3224 | 3230 | 3236 | 3242 | 3248 | 3254 | 3260 | 3266 | 1 0.6 |
| 33 | 3272 | 3278 | 3284 | 3290 | 3297 | 3303 | 3309 | 3315 | 3321 | 3327 | 2 1.2 |
| 34 | 3333 | 3339 | 3345 | 3351 | 3357 | 3364 | 3370 | 3376 | 3382 | 3388 | 3 1.8 |
| 35 | 85 3394 | 3400 | 3406 | 3412 | 3418 | 3424 | 3430 | 3437 | 3443 | 3449 | 4 2.4 |
| 36 | 3455 | 3461 | 3467 | 3473 | 3479 | 3486 | 3491 | 3497 | 3504 | 3510 | 5 3.0 |
| 37 | 3516 | 3522 | 3528 | 3534 | 3540 | 3546 | 3552 | 3558 | 3564 | 3570 | 6 3.6 |
| 38 | 3577 | 3583 | 3589 | 3595 | 3601 | 3607 | 3613 | 3619 | 3625 | 3631 | 7 4.2 |
| 39 | 3637 | 3643 | 3650 | 3656 | 3662 | 3668 | 3674 | 3680 | 3686 | 3692 | 8 4.8 |
| 7140 | 85 3698 | 3704 | 3710 | 3716 | 3723 | 3729 | 3735 | 3741 | 3747 | 3753 | 9 5.4 |
| 41 | 3759 | 3765 | 3771 | 3777 | 3783 | 3789 | 3796 | 3802 | 3808 | 3814 | |
| 42 | 3820 | 3826 | 3832 | 3838 | 3844 | 3850 | 3856 | 3862 | 3868 | 3875 | |
| 43 | 3881 | 3887 | 3893 | 3899 | 3905 | 3911 | 3917 | 3923 | 3929 | 3935 | |
| 44 | 3941 | 3948 | 3954 | 3960 | 3966 | 3972 | 3978 | 3984 | 3990 | 3996 | |
| 45 | 85 4002 | 4008 | 4014 | 4020 | 4027 | 4033 | 4039 | 4045 | 4051 | 4057 | |
| 46 | 4063 | 4069 | 4075 | 4081 | 4087 | 4093 | 4099 | 4106 | 4112 | 4118 | |
| 47 | 4124 | 4130 | 4136 | 4142 | 4148 | 4154 | 4160 | 4166 | 4172 | 4178 | |
| 48 | 4185 | 4191 | 4197 | 4203 | 4209 | 4215 | 4221 | 4227 | 4233 | 4239 | |
| 49 | 4245 | 4251 | 4257 | 4264 | 4270 | 4276 | 4282 | 4288 | 4294 | 4300 | |
| 7150 | 85 4306 | 4312 | 4318 | 4324 | 4330 | 4336 | 4342 | 4349 | 4355 | 4361 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 71000" | 19° 43' 20" | | | | | 71000" | 19° 58' 20" | S. 4,685 | 489 | T. 746 | |
| 71100 | 19 45 0 | | | | | 71100 | 19 58 30 | | 489 | 747 | |
| 71200 | 19 46 40 | | | | | 71200 | 19 58 40 | | 489 | 747 | |
| 71300 | 19 48 20 | | | | | 71300 | 19 58 50 | | 488 | 748 | |
| 71400 | 19 50 0 | | | | | 71400 | 19 59 0 | | 488 | 748 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------------|------|------|--------------------|------|------|---------------------|------|------|------|-------|
| 7150 | 85 4306 | 4312 | 4318 | 4324 | 4330 | 4336 | 4342 | 4349 | 4355 | 4361 | |
| 51 | 4367 | 4373 | 4379 | 4385 | 4391 | 4397 | 4403 | 4409 | 4415 | 4421 | |
| 52 | 4428 | 4434 | 4440 | 4446 | 4452 | 4458 | 4464 | 4470 | 4476 | 4482 | |
| 53 | 4488 | 4494 | 4500 | 4506 | 4513 | 4519 | 4525 | 4531 | 4537 | 4543 | |
| 54 | 4549 | 4555 | 4561 | 4567 | 4573 | 4579 | 4585 | 4591 | 4597 | 4604 | |
| 55 | 85 4610 | 4616 | 4622 | 4628 | 4634 | 4640 | 4646 | 4652 | 4658 | 4664 | |
| 56 | 4670 | 4676 | 4682 | 4689 | 4695 | 4701 | 4707 | 4713 | 4719 | 4725 | |
| 57 | 4731 | 4737 | 4743 | 4749 | 4755 | 4761 | 4767 | 4773 | 4780 | 4786 | |
| 58 | 4792 | 4798 | 4804 | 4810 | 4816 | 4822 | 4828 | 4834 | 4840 | 4846 | |
| 59 | 4852 | 4858 | 4864 | 4871 | 4877 | 4883 | 4889 | 4895 | 4901 | 4907 | |
| 7160 | 85 4913 | 4919 | 4925 | 4931 | 4937 | 4943 | 4949 | 4955 | 4962 | 4968 | |
| 61 | 4974 | 4980 | 4986 | 4992 | 4998 | 5004 | 5010 | 5016 | 5022 | 5028 | 7 |
| 62 | 5034 | 5040 | 5046 | 5053 | 5059 | 5065 | 5071 | 5077 | 5083 | 5089 | 1 0.7 |
| 63 | 5095 | 5101 | 5107 | 5113 | 5119 | 5125 | 5131 | 5137 | 5143 | 5150 | 2 1.4 |
| 64 | 85 5156 | 5162 | 5168 | 5174 | 5180 | 5186 | 5192 | 5198 | 5204 | 5210 | 3 2.1 |
| 65 | 5216 | 5222 | 5228 | 5234 | 5240 | 5247 | 5253 | 5259 | 5265 | 5271 | 4 2.8 |
| 66 | 5277 | 5283 | 5289 | 5295 | 5301 | 5307 | 5313 | 5319 | 5325 | 5331 | 5 3.5 |
| 67 | 5337 | 5343 | 5350 | 5356 | 5362 | 5368 | 5374 | 5380 | 5386 | 5392 | 6 4.2 |
| 68 | 5398 | 5404 | 5410 | 5416 | 5422 | 5428 | 5434 | 5440 | 5446 | 5453 | 7 4.9 |
| 69 | 5459 | 5465 | 5471 | 5477 | 5483 | 5489 | 5495 | 5501 | 5507 | 5513 | 8 5.6 |
| 7170 | 85 5519 | 5525 | 5531 | 5537 | 5543 | 5549 | 5555 | 5562 | 5568 | 5574 | 9 6.3 |
| 71 | 5580 | 5586 | 5592 | 5598 | 5604 | 5610 | 5616 | 5622 | 5628 | 5634 | |
| 72 | 5640 | 5646 | 5652 | 5658 | 5665 | 5671 | 5677 | 5683 | 5689 | 5695 | |
| 73 | 5701 | 5707 | 5713 | 5719 | 5725 | 5731 | 5737 | 5743 | 5749 | 5755 | |
| 74 | 85 5761 | 5767 | 5773 | 5780 | 5786 | 5792 | 5798 | 5804 | 5810 | 5816 | |
| 75 | 5822 | 5828 | 5834 | 5840 | 5846 | 5852 | 5858 | 5864 | 5870 | 5876 | |
| 76 | 5882 | 5888 | 5895 | 5901 | 5907 | 5913 | 5919 | 5925 | 5931 | 5937 | |
| 77 | 5943 | 5949 | 5955 | 5961 | 5967 | 5973 | 5979 | 5985 | 5991 | 5997 | |
| 78 | 6003 | 6010 | 6016 | 6022 | 6028 | 6034 | 6040 | 6046 | 6052 | 6058 | |
| 79 | 6064 | 6070 | 6076 | 6082 | 6088 | 6094 | 6100 | 6106 | 6112 | 6118 | |
| 7180 | 85 6124 | 6130 | 6137 | 6143 | 6149 | 6155 | 6161 | 6167 | 6173 | 6179 | |
| 81 | 6185 | 6191 | 6197 | 6203 | 6209 | 6215 | 6221 | 6227 | 6233 | 6239 | 6 |
| 82 | 6245 | 6251 | 6257 | 6264 | 6270 | 6276 | 6282 | 6288 | 6294 | 6300 | 1 0.6 |
| 83 | 6306 | 6312 | 6318 | 6324 | 6330 | 6336 | 6342 | 6348 | 6354 | 6360 | 2 1.2 |
| 84 | 85 6366 | 6372 | 6378 | 6384 | 6391 | 6397 | 6403 | 6409 | 6415 | 6421 | 3 1.8 |
| 85 | 6427 | 6433 | 6439 | 6445 | 6451 | 6457 | 6463 | 6469 | 6475 | 6481 | 4 2.4 |
| 86 | 6487 | 6493 | 6499 | 6505 | 6511 | 6517 | 6523 | 6530 | 6536 | 6542 | 5 3.0 |
| 87 | 6548 | 6554 | 6560 | 6566 | 6572 | 6578 | 6584 | 6590 | 6596 | 6602 | 6 3.6 |
| 88 | 6608 | 6614 | 6620 | 6626 | 6632 | 6638 | 6644 | 6650 | 6656 | 6662 | 7 4.2 |
| 89 | 6668 | 6675 | 6681 | 6687 | 6693 | 6699 | 6705 | 6711 | 6717 | 6723 | 8 4.8 |
| 7190 | 85 6729 | 6735 | 6741 | 6747 | 6753 | 6759 | 6765 | 6771 | 6777 | 6783 | 9 5.4 |
| 91 | 6789 | 6795 | 6801 | 6807 | 6813 | 6819 | 6826 | 6832 | 6838 | 6844 | |
| 92 | 6850 | 6856 | 6862 | 6868 | 6874 | 6880 | 6886 | 6892 | 6898 | 6904 | |
| 93 | 6910 | 6916 | 6922 | 6928 | 6934 | 6940 | 6946 | 6952 | 6958 | 6964 | |
| 94 | 6970 | 6976 | 6983 | 6989 | 6995 | 7001 | 7007 | 7013 | 7019 | 7025 | |
| 95 | 85 7031 | 7037 | 7043 | 7049 | 7055 | 7061 | 7067 | 7073 | 7079 | 7085 | |
| 96 | 7091 | 7097 | 7103 | 7109 | 7115 | 7121 | 7127 | 7133 | 7139 | 7145 | |
| 97 | 7152 | 7158 | 7164 | 7170 | 7176 | 7182 | 7188 | 7194 | 7200 | 7206 | |
| 98 | 7212 | 7218 | 7224 | 7230 | 7236 | 7242 | 7248 | 7254 | 7260 | 7266 | |
| 99 | 7272 | 7278 | 7284 | 7290 | 7296 | 7302 | 7308 | 7314 | 7320 | 7326 | |
| 7200 | 85 7332 | 7339 | 7345 | 7351 | 7357 | 7363 | 7369 | 7375 | 7381 | 7387 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 71500" | = 19° 51' 40" | | | 7150" = 1° 59' 10" | | | S. 4,685 488 T. 749 | | | | |
| 71600 | = 19 53 20 | | | 7160 = 1 59 20 | | | 488 749 | | | | |
| 71700 | = 19 55 0 | | | 7170 = 1 59 30 | | | 487 750 | | | | |
| 71800 | = 19 56 40 | | | 7180 = 1 59 40 | | | 487 750 | | | | |
| 71900 | = 19 58 20 | | | 7190 = 1 59 50 | | | 487 751 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------|------|------|------|-------|-------|-------|----------|-------|--------|-------|
| 7200 | 85 7332 | 7339 | 7345 | 7351 | 7357 | 7363 | 7369 | 7375 | 7381 | 7387 | |
| 01 | 7393 | 7399 | 7405 | 7411 | 7417 | 7423 | 7429 | 7435 | 7441 | 7447 | |
| 02 | 7453 | 7459 | 7465 | 7471 | 7477 | 7483 | 7489 | 7495 | 7501 | 7507 | |
| 03 | 7513 | 7519 | 7525 | 7532 | 7538 | 7544 | 7550 | 7556 | 7562 | 7568 | |
| 04 | 7574 | 7580 | 7586 | 7592 | 7598 | 7604 | 7610 | 7616 | 7622 | 7628 | |
| 05 | 85 7634 | 7640 | 7646 | 7652 | 7658 | 7664 | 7670 | 7676 | 7682 | 7688 | |
| 06 | 7694 | 7700 | 7706 | 7712 | 7718 | 7724 | 7730 | 7736 | 7742 | 7748 | |
| 07 | 7755 | 7761 | 7767 | 7773 | 7779 | 7785 | 7791 | 7797 | 7803 | 7809 | |
| 08 | 7815 | 7821 | 7827 | 7833 | 7839 | 7845 | 7851 | 7857 | 7863 | 7869 | |
| 09 | 7875 | 7881 | 7887 | 7893 | 7899 | 7905 | 7911 | 7917 | 7923 | 7929 | |
| 7210 | 85 7935 | 7941 | 7947 | 7953 | 7959 | 7965 | 7971 | 7977 | 7983 | 7989 | |
| 11 | 7995 | 8002 | 8008 | 8014 | 8020 | 8026 | 8032 | 8038 | 8044 | 8050 | 7 |
| 12 | 8056 | 8062 | 8068 | 8074 | 8080 | 8086 | 8092 | 8098 | 8104 | 8110 | 1 0.7 |
| 13 | 8116 | 8122 | 8128 | 8134 | 8140 | 8146 | 8152 | 8158 | 8164 | 8170 | 2 1.4 |
| 14 | 8176 | 8182 | 8188 | 8194 | 8200 | 8206 | 8212 | 8218 | 8224 | 8230 | 3 2.1 |
| 15 | 85 8236 | 8242 | 8248 | 8254 | 8260 | 8266 | 8272 | 8278 | 8284 | 8291 | 4 2.8 |
| 16 | 8297 | 8303 | 8309 | 8315 | 8321 | 8327 | 8333 | 8339 | 8345 | 8351 | 5 3.5 |
| 17 | 8357 | 8363 | 8369 | 8375 | 8381 | 8387 | 8393 | 8399 | 8405 | 8411 | 6 4.2 |
| 18 | 8417 | 8423 | 8429 | 8435 | 8441 | 8447 | 8453 | 8459 | 8465 | 8471 | 7 4.9 |
| 19 | 8477 | 8483 | 8489 | 8495 | 8501 | 8507 | 8513 | 8519 | 8525 | 8531 | 8 5.6 |
| 7220 | 85 8537 | 8543 | 8549 | 8555 | 8561 | 8567 | 8573 | 8579 | 8585 | 8591 | 9 6.3 |
| 21 | 8597 | 8603 | 8609 | 8615 | 8621 | 8627 | 8633 | 8639 | 8645 | 8651 | |
| 22 | 8657 | 8663 | 8670 | 8676 | 8682 | 8688 | 8694 | 8700 | 8706 | 8712 | |
| 23 | 8718 | 8724 | 8730 | 8736 | 8742 | 8748 | 8754 | 8760 | 8766 | 8772 | |
| 24 | 8778 | 8784 | 8790 | 8796 | 8802 | 8808 | 8814 | 8820 | 8826 | 8832 | |
| 25 | 85 8838 | 8844 | 8850 | 8856 | 8862 | 8868 | 8874 | 8880 | 8886 | 8892 | |
| 26 | 8898 | 8904 | 8910 | 8916 | 8922 | 8928 | 8934 | 8940 | 8946 | 8952 | |
| 27 | 8958 | 8964 | 8970 | 8976 | 8982 | 8988 | 8994 | 9000 | 9006 | 9012 | |
| 28 | 9018 | 9024 | 9030 | 9036 | 9042 | 9048 | 9054 | 9060 | 9066 | 9072 | |
| 29 | 9078 | 9084 | 9090 | 9096 | 9102 | 9108 | 9114 | 9120 | 9126 | 9132 | |
| 7230 | 85 9138 | 9144 | 9150 | 9156 | 9162 | 9168 | 9174 | 9180 | 9186 | 9192 | 6 |
| 31 | 9198 | 9204 | 9210 | 9216 | 9222 | 9228 | 9234 | 9240 | 9246 | 9252 | 1 0.6 |
| 32 | 9258 | 9264 | 9270 | 9276 | 9282 | 9288 | 9294 | 9300 | 9306 | 9312 | 2 1.2 |
| 33 | 9318 | 9324 | 9330 | 9336 | 9342 | 9348 | 9354 | 9360 | 9366 | 9372 | 3 1.8 |
| 34 | 9379 | 9385 | 9391 | 9397 | 9403 | 9409 | 9415 | 9421 | 9427 | 9433 | 4 2.4 |
| 35 | 85 9439 | 9445 | 9451 | 9457 | 9463 | 9469 | 9475 | 9481 | 9487 | 9493 | 5 3.0 |
| 36 | 9499 | 9505 | 9511 | 9517 | 9523 | 9529 | 9535 | 9541 | 9547 | 9553 | 6 3.6 |
| 37 | 9559 | 9565 | 9571 | 9577 | 9583 | 9589 | 9595 | 9601 | 9607 | 9613 | 7 4.2 |
| 38 | 9619 | 9625 | 9631 | 9637 | 9643 | 9649 | 9655 | 9661 | 9667 | 9673 | 8 4.8 |
| 39 | 9679 | 9685 | 9691 | 9697 | 9703 | 9709 | 9715 | 9721 | 9727 | 9733 | 9 5.4 |
| 7240 | 85 9739 | 9745 | 9751 | 9757 | 9763 | 9769 | 9775 | 9781 | 9787 | 9793 | |
| 41 | 9799 | 9805 | 9811 | 9817 | 9823 | 9829 | 9835 | 9841 | 9847 | 9853 | |
| 42 | 9859 | 9865 | 9871 | 9877 | 9883 | 9889 | 9895 | 9900 | 9906 | 9912 | |
| 43 | 9918 | 9924 | 9930 | 9936 | 9942 | 9948 | 9954 | 9960 | 9966 | 9972 | |
| 44 | 9978 | 9984 | 9990 | 9996 | 10002 | 10008 | 10014 | 10020 | 10026 | 10032 | |
| 45 | 86 0038 | 0044 | 0050 | 0056 | 0062 | 0068 | 0074 | 0080 | 0086 | 0092 | |
| 46 | 0098 | 0104 | 0110 | 0116 | 0122 | 0128 | 0134 | 0140 | 0146 | 0152 | |
| 47 | 0158 | 0164 | 0170 | 0176 | 0182 | 0188 | 0194 | 0200 | 0206 | 0212 | |
| 48 | 0218 | 0224 | 0230 | 0236 | 0242 | 0248 | 0254 | 0260 | 0266 | 0272 | |
| 49 | 0278 | 0284 | 0290 | 0296 | 0302 | 0308 | 0314 | 0320 | 0326 | 0332 | |
| 7250 | 86 0338 | 0344 | 0350 | 0356 | 0362 | 0368 | 0374 | 0380 | 0386 | 0392 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 72000" | 20° 0' | 0' | 0' | | 7200" | 2° 0' | 0' | S. 4,685 | 487 | T. 751 | |
| 72100" | 20 1 | 40 | | | 7210" | 2 0 | 10 | | 486 | 752 | |
| 72200" | 20 3 | 20 | | | 7220" | 2 0 | 20 | | | 752 | |
| 72300" | 20 5 | 0 | | | 7230" | 2 0 | 30 | | | 486 | 753 |
| 72400" | 20 6 | 40 | | | 7240" | 2 0 | 40 | | | 486 | 753 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|--------------|------|------|------|------|-------|-------------|----------|------|--------|-------|
| 7250 | 86 0338 | 0344 | 0350 | 0356 | 0362 | 0368 | 0374 | 0380 | 0386 | 0392 | |
| 51 | 0398 | 0404 | 0410 | 0416 | 0422 | 0428 | 0434 | 0440 | 0446 | 0452 | |
| 52 | 0458 | 0464 | 0470 | 0476 | 0482 | 0488 | 0494 | 0500 | 0506 | 0512 | |
| 53 | 0518 | 0524 | 0530 | 0536 | 0542 | 0548 | 0554 | 0560 | 0566 | 0572 | |
| 54 | 0578 | 0584 | 0590 | 0596 | 0601 | 0607 | 0613 | 0619 | 0625 | 0631 | |
| 55 | 86 0637 | 0643 | 0649 | 0655 | 0661 | 0667 | 0673 | 0679 | 0685 | 0691 | |
| 56 | 0697 | 0703 | 0709 | 0715 | 0721 | 0727 | 0733 | 0739 | 0745 | 0751 | |
| 57 | 0757 | 0763 | 0769 | 0775 | 0781 | 0787 | 0793 | 0799 | 0805 | 0811 | |
| 58 | 0817 | 0823 | 0829 | 0835 | 0841 | 0847 | 0853 | 0859 | 0865 | 0871 | |
| 59 | 0877 | 0883 | 0889 | 0895 | 0901 | 0907 | 0913 | 0919 | 0925 | 0931 | |
| 7260 | 86 0937 | 0943 | 0949 | 0955 | 0961 | 0967 | 0973 | 0978 | 0984 | 0990 | |
| 61 | 0996 | 1002 | 1008 | 1014 | 1020 | 1026 | 1032 | 1038 | 1044 | 1050 | |
| 62 | 1056 | 1062 | 1068 | 1074 | 1080 | 1086 | 1092 | 1098 | 1104 | 1110 | 1 0 6 |
| 63 | 1116 | 1122 | 1128 | 1134 | 1140 | 1146 | 1152 | 1158 | 1164 | 1170 | 2 1.2 |
| 64 | 1176 | 1182 | 1188 | 1194 | 1200 | 1206 | 1212 | 1218 | 1224 | 1230 | 3 1.8 |
| 65 | 86 1236 | 1242 | 1248 | 1254 | 1260 | 1266 | 1271 | 1277 | 1283 | 1289 | 4 2.4 |
| 66 | 1295 | 1301 | 1307 | 1313 | 1319 | 1325 | 1331 | 1337 | 1343 | 1349 | 5 3.0 |
| 67 | 1355 | 1361 | 1367 | 1373 | 1379 | 1385 | 1391 | 1397 | 1403 | 1409 | 6 3.6 |
| 68 | 1415 | 1421 | 1427 | 1433 | 1439 | 1445 | 1451 | 1457 | 1463 | 1469 | 7 4.2 |
| 69 | 1475 | 1481 | 1487 | 1493 | 1499 | 1505 | 1511 | 1516 | 1522 | 1528 | 8 4.8 |
| 7270 | 86 1534 | 1540 | 1546 | 1552 | 1558 | 1564 | 1570 | 1576 | 1582 | 1588 | 9 5.4 |
| 71 | 1594 | 1600 | 1606 | 1612 | 1618 | 1624 | 1630 | 1636 | 1642 | 1648 | |
| 72 | 1654 | 1660 | 1666 | 1672 | 1678 | 1684 | 1690 | 1696 | 1702 | 1708 | |
| 73 | 1714 | 1720 | 1726 | 1732 | 1737 | 1743 | 1749 | 1755 | 1761 | 1767 | |
| 74 | 1773 | 1779 | 1785 | 1791 | 1797 | 1803 | 1809 | 1815 | 1821 | 1827 | |
| 75 | 86 1833 | 1839 | 1845 | 1851 | 1857 | 1863 | 1869 | 1875 | 1881 | 1887 | |
| 76 | 1893 | 1899 | 1905 | 1911 | 1917 | 1923 | 1929 | 1934 | 1940 | 1946 | |
| 77 | 1952 | 1958 | 1964 | 1970 | 1976 | 1982 | 1988 | 1994 | 2000 | 2006 | |
| 78 | 2012 | 2018 | 2024 | 2030 | 2036 | 2042 | 2048 | 2054 | 2060 | 2066 | |
| 79 | 2072 | 2078 | 2084 | 2090 | 2096 | 2102 | 2108 | 2113 | 2119 | 2125 | |
| 7280 | 86 2131 | 2137 | 2143 | 2149 | 2155 | 2161 | 2167 | 2173 | 2179 | 2185 | |
| 81 | 2191 | 2197 | 2203 | 2209 | 2215 | 2221 | 2227 | 2233 | 2239 | 2245 | 5 |
| 82 | 2251 | 2257 | 2263 | 2269 | 2275 | 2280 | 2286 | 2292 | 2298 | 2304 | 1 0.5 |
| 83 | 2310 | 2316 | 2322 | 2328 | 2334 | 2340 | 2346 | 2352 | 2358 | 2364 | 2 1.0 |
| 84 | 2370 | 2376 | 2382 | 2388 | 2394 | 2400 | 2406 | 2412 | 2418 | 2424 | 3 1.5 |
| 85 | 86 2430 | 2436 | 2441 | 2447 | 2453 | 2459 | 2465 | 2471 | 2477 | 2483 | 4 2.0 |
| 86 | 2489 | 2495 | 2501 | 2507 | 2513 | 2519 | 2525 | 2531 | 2537 | 2543 | 5 2.5 |
| 87 | 2549 | 2555 | 2561 | 2567 | 2573 | 2579 | 2585 | 2590 | 2596 | 2602 | 6 3.0 |
| 88 | 2608 | 2614 | 2620 | 2626 | 2632 | 2638 | 2644 | 2650 | 2656 | 2662 | 7 3.5 |
| 89 | 2668 | 2674 | 2680 | 2686 | 2692 | 2698 | 2704 | 2710 | 2716 | 2722 | 8 4.0 |
| 7290 | 86 2728 | 2733 | 2739 | 2745 | 2751 | 2757 | 2763 | 2769 | 2775 | 2781 | 9 4.5 |
| 91 | 2787 | 2793 | 2799 | 2805 | 2811 | 2817 | 2823 | 2829 | 2835 | 2841 | |
| 92 | 2847 | 2853 | 2859 | 2865 | 2870 | 2876 | 2882 | 2888 | 2894 | 2900 | |
| 93 | 2906 | 2912 | 2918 | 2924 | 2930 | 2936 | 2942 | 2948 | 2954 | 2960 | |
| 94 | 2966 | 2972 | 2978 | 2984 | 2990 | 2996 | 3001 | 3007 | 3013 | 3019 | |
| 95 | 86 3025 | 3031 | 3037 | 3043 | 3049 | 3055 | 3061 | 3067 | 3073 | 3079 | |
| 96 | 3085 | 3091 | 3097 | 3103 | 3109 | 3115 | 3121 | 3126 | 3132 | 3138 | |
| 97 | 3144 | 3150 | 3156 | 3162 | 3168 | 3174 | 3180 | 3186 | 3192 | 3198 | |
| 98 | 3204 | 3210 | 3216 | 3222 | 3228 | 3234 | 3240 | 3246 | 3251 | 3257 | |
| 99 | 3263 | 3269 | 3275 | 3281 | 3287 | 3293 | 3299 | 3305 | 3311 | 3317 | |
| 7300 | 86 3323 | 3329 | 3335 | 3341 | 3347 | 3353 | 3359 | 3365 | 3370 | 3376 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 72500° | = 20° 8' 20" | | | | | 7250° | = 2° 0' 50" | S. 4,685 | 485 | T. 754 | |
| 72600 | = 20 10 0 | | | | | 7260 | = 2 1 0 | | 485 | 754 | |
| 72700 | = 20 11 40 | | | | | 7270 | = 2 1 10 | | 485 | 755 | |
| 72800 | = 20 13 20 | | | | | 7280 | = 2 1 20 | | 485 | 755 | |
| 72900 | = 20 15 0 | | | | | 7290 | = 2 1 30 | | 484 | 756 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. | | | |
|-------|---------------|------|------|------|------|------|-------------|------|------|------|-------|----------|-----|--------|
| 7300 | 86 3323 | 3329 | 3335 | 3341 | 3347 | 3353 | 3359 | 3365 | 3370 | 3376 | | | | |
| 01 | 3382 | 3388 | 3394 | 3400 | 3406 | 3412 | 3418 | 3424 | 3430 | 3436 | | | | |
| 02 | 3442 | 3448 | 3454 | 3460 | 3466 | 3472 | 3478 | 3483 | 3489 | 3495 | | | | |
| 03 | 3501 | 3507 | 3513 | 3519 | 3525 | 3531 | 3537 | 3543 | 3549 | 3555 | | | | |
| 04 | 3561 | 3567 | 3573 | 3579 | 3585 | 3590 | 3596 | 3602 | 3608 | 3614 | | | | |
| 05 | 86 3620 | 3626 | 3632 | 3638 | 3644 | 3650 | 3656 | 3662 | 3668 | 3674 | | | | |
| 06 | 3680 | 3686 | 3692 | 3698 | 3703 | 3709 | 3715 | 3721 | 3727 | 3733 | | | | |
| 07 | 3739 | 3745 | 3751 | 3757 | 3763 | 3769 | 3775 | 3781 | 3787 | 3793 | | | | |
| 08 | 3799 | 3804 | 3810 | 3816 | 3822 | 3828 | 3834 | 3840 | 3846 | 3852 | | | | |
| 09 | 3858 | 3864 | 3870 | 3876 | 3882 | 3888 | 3894 | 3900 | 3905 | 3911 | | | | |
| 7310 | 86 3917 | 3923 | 3929 | 3935 | 3941 | 3947 | 3953 | 3959 | 3965 | 3971 | 6 | | | |
| 11 | 3977 | 3983 | 3989 | 3995 | 4001 | 4006 | 4012 | 4018 | 4024 | 4030 | 1 0.6 | | | |
| 12 | 4036 | 4042 | 4048 | 4054 | 4060 | 4066 | 4072 | 4078 | 4084 | 4090 | 2 1.2 | | | |
| 13 | 4096 | 4102 | 4107 | 4113 | 4119 | 4125 | 4131 | 4137 | 4143 | 4149 | 3 1.8 | | | |
| 14 | 4155 | 4161 | 4167 | 4173 | 4179 | 4185 | 4191 | 4197 | 4202 | 4208 | 4 2.4 | | | |
| 15 | 86 4214 | 4220 | 4226 | 4232 | 4238 | 4244 | 4250 | 4256 | 4262 | 4268 | 5 3.0 | | | |
| 16 | 4274 | 4280 | 4286 | 4292 | 4297 | 4303 | 4309 | 4315 | 4321 | 4327 | 6 3.6 | | | |
| 17 | 4333 | 4339 | 4345 | 4351 | 4357 | 4363 | 4369 | 4375 | 4381 | 4386 | 7 4.2 | | | |
| 18 | 4392 | 4398 | 4404 | 4410 | 4416 | 4422 | 4428 | 4434 | 4440 | 4446 | 8 4.8 | | | |
| 19 | 4452 | 4458 | 4464 | 4470 | 4475 | 4481 | 4487 | 4493 | 4499 | 4505 | 9 5.4 | | | |
| 7320 | 86 4511 | 4517 | 4523 | 4529 | 4535 | 4541 | 4547 | 4553 | 4559 | 4564 | | | | |
| 21 | 4570 | 4576 | 4582 | 4588 | 4594 | 4600 | 4606 | 4612 | 4618 | 4624 | | | | |
| 22 | 4630 | 4636 | 4642 | 4648 | 4653 | 4659 | 4665 | 4671 | 4677 | 4683 | | | | |
| 23 | 4689 | 4695 | 4701 | 4707 | 4713 | 4719 | 4725 | 4731 | 4736 | 4742 | | | | |
| 24 | 4748 | 4754 | 4760 | 4766 | 4772 | 4778 | 4784 | 4790 | 4796 | 4802 | | | | |
| 25 | 86 4808 | 4814 | 4819 | 4825 | 4831 | 4837 | 4843 | 4849 | 4855 | 4861 | | | | |
| 26 | 4867 | 4873 | 4879 | 4885 | 4891 | 4897 | 4902 | 4908 | 4914 | 4920 | | | | |
| 27 | 4926 | 4932 | 4938 | 4944 | 4950 | 4956 | 4962 | 4968 | 4974 | 4980 | | | | |
| 28 | 4985 | 4991 | 4997 | 5003 | 5009 | 5015 | 5021 | 5027 | 5033 | 5039 | | | | |
| 29 | 5045 | 5051 | 5057 | 5062 | 5068 | 5074 | 5080 | 5086 | 5092 | 5098 | | | | |
| 7330 | 86 5104 | 5110 | 5116 | 5122 | 5128 | 5134 | 5140 | 5145 | 5151 | 5157 | 5 | | | |
| 31 | 5163 | 5169 | 5175 | 5181 | 5187 | 5193 | 5199 | 5205 | 5211 | 5217 | 1 0.5 | | | |
| 32 | 5222 | 5228 | 5234 | 5240 | 5246 | 5252 | 5258 | 5264 | 5270 | 5276 | 2 1.0 | | | |
| 33 | 5282 | 5288 | 5294 | 5299 | 5305 | 5311 | 5317 | 5323 | 5329 | 5335 | 3 1.5 | | | |
| 34 | 5341 | 5347 | 5353 | 5359 | 5365 | 5371 | 5376 | 5382 | 5388 | 5394 | 4 2.0 | | | |
| 35 | 86 5400 | 5406 | 5412 | 5418 | 5424 | 5430 | 5436 | 5442 | 5447 | 5453 | 5 2.5 | | | |
| 36 | 5459 | 5465 | 5471 | 5477 | 5483 | 5489 | 5495 | 5501 | 5507 | 5513 | 6 3.0 | | | |
| 37 | 5519 | 5524 | 5530 | 5536 | 5542 | 5548 | 5554 | 5560 | 5566 | 5572 | 7 3.5 | | | |
| 38 | 5578 | 5584 | 5590 | 5595 | 5601 | 5607 | 5613 | 5619 | 5625 | 5631 | 8 4.0 | | | |
| 39 | 5637 | 5643 | 5649 | 5655 | 5661 | 5666 | 5672 | 5678 | 5684 | 5690 | 9 4.5 | | | |
| 7340 | 86 5696 | 5702 | 5708 | 5714 | 5720 | 5726 | 5732 | 5737 | 5743 | 5749 | | | | |
| 41 | 5755 | 5761 | 5767 | 5773 | 5779 | 5785 | 5791 | 5797 | 5803 | 5808 | | | | |
| 42 | 5814 | 5820 | 5825 | 5832 | 5838 | 5844 | 5850 | 5856 | 5862 | 5868 | | | | |
| 43 | 5874 | 5879 | 5885 | 5891 | 5897 | 5903 | 5909 | 5915 | 5921 | 5927 | | | | |
| 44 | 5933 | 5939 | 5944 | 5950 | 5956 | 5962 | 5968 | 5974 | 5980 | 5986 | | | | |
| 45 | 86 5992 | 5998 | 6004 | 6010 | 6015 | 6021 | 6027 | 6033 | 6039 | 6045 | | | | |
| 46 | 6051 | 6057 | 6063 | 6069 | 6075 | 6080 | 6086 | 6092 | 6098 | 6104 | | | | |
| 47 | 6110 | 6116 | 6122 | 6128 | 6134 | 6140 | 6146 | 6151 | 6157 | 6163 | | | | |
| 48 | 6169 | 6175 | 6181 | 6187 | 6193 | 6199 | 6205 | 6211 | 6216 | 6222 | | | | |
| 49 | 6228 | 6234 | 6240 | 6246 | 6252 | 6258 | 6264 | 6270 | 6276 | 6281 | | | | |
| 7350 | 86 6287 | 6293 | 6299 | 6305 | 6311 | 6317 | 6323 | 6329 | 6335 | 6341 | | | | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. | | | |
| 73000 | = 20° 16' 40" | | | | | 7300 | = 2° 1' 40" | | | | | S. 4,685 | 484 | T. 756 |
| 73100 | = 20 18 20 | | | | | 7310 | = 2 1 50 | | | | | | 484 | 757 |
| 73200 | = 20 20 0 | | | | | 7320 | = 2 2 0 | | | | | | 484 | 757 |
| 73300 | = 20 21 40 | | | | | 7330 | = 2 2 10 | | | | | | 483 | 758 |
| 73400 | = 20 23 20 | | | | | 7340 | = 2 2 20 | | | | | | 483 | 758 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|------|--------|------------|----------|------|--------|-------|
| 7350 | 86 6287 | 6293 | 6299 | 6305 | 6311 | 6317 | 6323 | 6329 | 6335 | 6341 | |
| 51 | 6346 | 6352 | 6358 | 6364 | 6370 | 6376 | 6382 | 6388 | 6394 | 6400 | |
| 52 | 6405 | 6411 | 6417 | 6423 | 6429 | 6435 | 6441 | 6447 | 6453 | 6459 | |
| 53 | 6465 | 6470 | 6476 | 6482 | 6488 | 6494 | 6500 | 6506 | 6512 | 6518 | |
| 54 | 6524 | 6530 | 6535 | 6541 | 6547 | 6553 | 6559 | 6565 | 6571 | 6577 | |
| 55 | 86 6583 | 6589 | 6594 | 6600 | 6606 | 6612 | 6618 | 6624 | 6630 | 6636 | |
| 56 | 6642 | 6648 | 6654 | 6659 | 6665 | 6671 | 6677 | 6683 | 6689 | 6695 | |
| 57 | 6701 | 6707 | 6713 | 6718 | 6724 | 6730 | 6736 | 6742 | 6748 | 6754 | |
| 58 | 6760 | 6766 | 6772 | 6777 | 6783 | 6789 | 6795 | 6801 | 6807 | 6813 | |
| 59 | 6819 | 6825 | 6831 | 6837 | 6842 | 6848 | 6854 | 6860 | 6866 | 6872 | |
| 7360 | 86 6878 | 6884 | 6890 | 6896 | 6901 | 6907 | 6913 | 6919 | 6925 | 6931 | |
| 61 | 6937 | 6943 | 6949 | 6955 | 6960 | 6966 | 6972 | 6978 | 6984 | 6990 | 6 |
| 62 | 6996 | 7002 | 7008 | 7014 | 7019 | 7025 | 7031 | 7037 | 7043 | 7049 | 1 0.6 |
| 63 | 7055 | 7061 | 7067 | 7072 | 7078 | 7084 | 7090 | 7096 | 7102 | 7108 | 2 1.2 |
| 64 | 7114 | 7120 | 7126 | 7131 | 7137 | 7143 | 7149 | 7155 | 7161 | 7167 | 3 1.8 |
| 65 | 86 7173 | 7179 | 7185 | 7190 | 7196 | 7202 | 7208 | 7214 | 7220 | 7226 | 4 2.4 |
| 66 | 7232 | 7238 | 7244 | 7249 | 7255 | 7261 | 7267 | 7273 | 7279 | 7285 | 5 3.0 |
| 67 | 7291 | 7297 | 7302 | 7308 | 7314 | 7320 | 7326 | 7332 | 7338 | 7344 | 6 3.6 |
| 68 | 7350 | 7356 | 7361 | 7367 | 7373 | 7379 | 7385 | 7391 | 7397 | 7403 | 7 4.2 |
| 69 | 7409 | 7414 | 7420 | 7426 | 7432 | 7438 | 7444 | 7450 | 7456 | 7462 | 8 4.8 |
| 7370 | 86 7467 | 7473 | 7479 | 7485 | 7491 | 7497 | 7503 | 7509 | 7515 | 7521 | 9 5.4 |
| 71 | 7526 | 7532 | 7538 | 7544 | 7550 | 7556 | 7562 | 7568 | 7574 | 7579 | |
| 72 | 7585 | 7591 | 7597 | 7603 | 7609 | 7615 | 7621 | 7627 | 7632 | 7638 | |
| 73 | 7644 | 7650 | 7656 | 7662 | 7668 | 7674 | 7680 | 7685 | 7691 | 7697 | |
| 74 | 7703 | 7709 | 7715 | 7721 | 7727 | 7733 | 7738 | 7744 | 7750 | 7756 | |
| 75 | 86 7762 | 7768 | 7774 | 7780 | 7786 | 7791 | 7797 | 7803 | 7809 | 7815 | |
| 76 | 7821 | 7827 | 7833 | 7839 | 7844 | 7850 | 7856 | 7862 | 7868 | 7874 | |
| 77 | 7880 | 7886 | 7892 | 7897 | 7903 | 7909 | 7915 | 7921 | 7927 | 7933 | |
| 78 | 7939 | 7945 | 7950 | 7956 | 7962 | 7968 | 7974 | 7980 | 7986 | 7992 | |
| 79 | 7998 | 8003 | 8009 | 8015 | 8021 | 8027 | 8033 | 8039 | 8045 | 8050 | |
| 7380 | 86 8056 | 8062 | 8068 | 8074 | 8080 | 8086 | 8092 | 8098 | 8103 | 8109 | 5 |
| 81 | 8115 | 8121 | 8127 | 8133 | 8139 | 8145 | 8151 | 8156 | 8162 | 8168 | 1 0.5 |
| 82 | 8174 | 8180 | 8186 | 8192 | 8198 | 8203 | 8209 | 8215 | 8221 | 8227 | 2 1.0 |
| 83 | 8233 | 8239 | 8245 | 8251 | 8256 | 8262 | 8268 | 8274 | 8280 | 8286 | 3 1.5 |
| 84 | 8292 | 8298 | 8303 | 8309 | 8315 | 8321 | 8327 | 8333 | 8339 | 8345 | 4 2.0 |
| 85 | 86 8350 | 8356 | 8362 | 8368 | 8374 | 8380 | 8386 | 8392 | 8398 | 8403 | 5 2.5 |
| 86 | 8409 | 8415 | 8421 | 8427 | 8433 | 8439 | 8445 | 8450 | 8456 | 8462 | 6 3.0 |
| 87 | 8468 | 8474 | 8480 | 8486 | 8492 | 8497 | 8503 | 8509 | 8515 | 8521 | 7 3.5 |
| 88 | 8527 | 8533 | 8539 | 8545 | 8550 | 8556 | 8562 | 8568 | 8574 | 8580 | 8 4.0 |
| 89 | 8586 | 8592 | 8597 | 8603 | 8609 | 8615 | 8621 | 8627 | 8633 | 8639 | 9 4.5 |
| 7390 | 86 8644 | 8650 | 8656 | 8662 | 8668 | 8674 | 8680 | 8686 | 8691 | 8697 | |
| 91 | 8703 | 8709 | 8715 | 8721 | 8727 | 8733 | 8738 | 8744 | 8750 | 8756 | |
| 92 | 8762 | 8768 | 8774 | 8780 | 8785 | 8791 | 8797 | 8803 | 8809 | 8815 | |
| 93 | 8821 | 8827 | 8832 | 8838 | 8844 | 8850 | 8856 | 8862 | 8868 | 8874 | |
| 94 | 8879 | 8885 | 8891 | 8897 | 8903 | 8909 | 8915 | 8921 | 8926 | 8932 | |
| 95 | 86 8938 | 8944 | 8950 | 8956 | 8962 | 8968 | 8973 | 8979 | 8985 | 8991 | |
| 96 | 8997 | 9003 | 9009 | 9015 | 9020 | 9026 | 9032 | 9038 | 9044 | 9050 | |
| 97 | 9056 | 9061 | 9067 | 9073 | 9079 | 9085 | 9091 | 9097 | 9103 | 9108 | |
| 98 | 9114 | 9120 | 9126 | 9132 | 9138 | 9144 | 9150 | 9155 | 9161 | 9167 | |
| 99 | 9173 | 9179 | 9185 | 9191 | 9197 | 9202 | 9208 | 9214 | 9220 | 9226 | |
| 7400 | 86 9232 | 9238 | 9243 | 9249 | 9255 | 9261 | 9267 | 9273 | 9279 | 9285 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 73500" | 20° 25' 0" | | | | | 73500" | 20° 2' 30" | S. 4,685 | 483 | T. 759 | |
| 73600 | 20 26 40 | | | | | 73600 | 2 2 40 | | 483 | 759 | |
| 73700 | 20 28 20 | | | | | 73700 | 2 2 50 | | 482 | 760 | |
| 73800 | 20 30 0 | | | | | 73800 | 2 3 0 | | 482 | 760 | |
| 73900 | 20 31 40 | | | | | 73900 | 2 3 10 | | 482 | 761 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|--------------------|------|----------|------|--------|------|-------|
| 7400 | 86 9232 | 9238 | 9243 | 9249 | 9255 | 9261 | 9267 | 9273 | 9279 | 9285 | |
| 01 | 9290 | 9296 | 9302 | 9308 | 9314 | 9320 | 9326 | 9331 | 9337 | 9343 | |
| 02 | 9349 | 9355 | 9361 | 9367 | 9373 | 9378 | 9384 | 9390 | 9396 | 9402 | |
| 03 | 9408 | 9414 | 9419 | 9425 | 9431 | 9437 | 9443 | 9449 | 9455 | 9461 | |
| 04 | 9466 | 9472 | 9478 | 9484 | 9490 | 9496 | 9502 | 9507 | 9513 | 9519 | |
| 05 | 86 9525 | 9531 | 9537 | 9543 | 9549 | 9554 | 9560 | 9566 | 9572 | 9578 | |
| 06 | 9584 | 9590 | 9595 | 9601 | 9607 | 9613 | 9619 | 9625 | 9631 | 9636 | |
| 07 | 9642 | 9648 | 9654 | 9660 | 9666 | 9672 | 9678 | 9683 | 9689 | 9695 | |
| 08 | 9701 | 9707 | 9713 | 9719 | 9724 | 9730 | 9736 | 9742 | 9748 | 9754 | |
| 09 | 9760 | 9765 | 9771 | 9777 | 9783 | 9789 | 9795 | 9801 | 9806 | 9812 | |
| 7410 | 86 9818 | 9824 | 9830 | 9836 | 9842 | 9848 | 9853 | 9859 | 9865 | 9871 | |
| 11 | 9877 | 9883 | 9889 | 9894 | 9900 | 9906 | 9912 | 9918 | 9924 | 9930 | 6 |
| 12 | 9935 | 9941 | 9947 | 9953 | 9959 | 9965 | 9971 | 9976 | 9982 | 9988 | 1 0.6 |
| 13 | 9994 | 0000 | 0006 | 0012 | 0017 | 0023 | 0029 | 0035 | 0041 | 0047 | 2 1.2 |
| 14 | 87 0053 | 0058 | 0064 | 0070 | 0076 | 0082 | 0088 | 0094 | 0099 | 0105 | 3 1.8 |
| 15 | 87 0111 | 0117 | 0123 | 0129 | 0135 | 0140 | 0146 | 0152 | 0158 | 0164 | 4 2.4 |
| 16 | 0170 | 0176 | 0181 | 0187 | 0193 | 0199 | 0205 | 0211 | 0217 | 0222 | 5 3.0 |
| 17 | 0228 | 0234 | 0240 | 0246 | 0252 | 0258 | 0263 | 0269 | 0275 | 0281 | 6 3.6 |
| 18 | 0287 | 0293 | 0299 | 0304 | 0310 | 0316 | 0322 | 0328 | 0334 | 0340 | 7 4.2 |
| 19 | 0345 | 0351 | 0357 | 0363 | 0369 | 0375 | 0380 | 0386 | 0392 | 0398 | 8 4.8 |
| 7420 | 87 0404 | 0410 | 0416 | 0421 | 0427 | 0433 | 0439 | 0445 | 0451 | 0457 | 9 5.4 |
| 21 | 0462 | 0468 | 0474 | 0480 | 0486 | 0492 | 0498 | 0503 | 0509 | 0515 | |
| 22 | 0521 | 0527 | 0533 | 0539 | 0544 | 0550 | 0556 | 0562 | 0568 | 0574 | |
| 23 | 0579 | 0585 | 0591 | 0597 | 0603 | 0609 | 0615 | 0620 | 0626 | 0632 | |
| 24 | 0638 | 0644 | 0650 | 0656 | 0661 | 0667 | 0673 | 0679 | 0685 | 0691 | |
| 25 | 87 0696 | 0702 | 0708 | 0714 | 0720 | 0726 | 0732 | 0737 | 0743 | 0749 | |
| 26 | 0755 | 0761 | 0767 | 0772 | 0778 | 0784 | 0790 | 0796 | 0802 | 0808 | |
| 27 | 0813 | 0819 | 0825 | 0831 | 0837 | 0843 | 0849 | 0854 | 0860 | 0866 | |
| 28 | 0872 | 0878 | 0884 | 0889 | 0895 | 0901 | 0907 | 0913 | 0919 | 0925 | |
| 29 | 0930 | 0936 | 0942 | 0948 | 0954 | 0960 | 0965 | 0971 | 0977 | 0983 | |
| 7430 | 87 0989 | 0995 | 1001 | 1006 | 1012 | 1018 | 1024 | 1030 | 1036 | 1041 | |
| 31 | 1047 | 1053 | 1059 | 1065 | 1071 | 1076 | 1082 | 1088 | 1094 | 1100 | 5 |
| 32 | 1106 | 1112 | 1117 | 1123 | 1129 | 1135 | 1141 | 1147 | 1152 | 1158 | 1 0.5 |
| 33 | 1164 | 1170 | 1176 | 1182 | 1188 | 1193 | 1199 | 1205 | 1211 | 1217 | 2 1.0 |
| 34 | 1223 | 1228 | 1234 | 1240 | 1246 | 1252 | 1258 | 1263 | 1269 | 1275 | 3 1.5 |
| 35 | 87 1281 | 1287 | 1293 | 1298 | 1304 | 1310 | 1316 | 1322 | 1328 | 1334 | 4 2.0 |
| 36 | 1339 | 1345 | 1351 | 1357 | 1363 | 1369 | 1374 | 1380 | 1386 | 1392 | 5 2.5 |
| 37 | 1398 | 1404 | 1409 | 1415 | 1421 | 1427 | 1433 | 1439 | 1444 | 1450 | 6 3.0 |
| 38 | 1456 | 1462 | 1468 | 1474 | 1480 | 1485 | 1491 | 1497 | 1503 | 1509 | 7 3.5 |
| 39 | 1515 | 1520 | 1526 | 1532 | 1538 | 1544 | 1550 | 1555 | 1561 | 1567 | 8 4.0 |
| 7440 | 87 1573 | 1579 | 1585 | 1590 | 1596 | 1602 | 1608 | 1614 | 1620 | 1625 | 9 4.5 |
| 41 | 1631 | 1637 | 1643 | 1649 | 1655 | 1660 | 1666 | 1672 | 1678 | 1684 | |
| 42 | 1690 | 1696 | 1701 | 1707 | 1713 | 1719 | 1725 | 1731 | 1736 | 1742 | |
| 43 | 1748 | 1754 | 1760 | 1766 | 1771 | 1777 | 1783 | 1789 | 1795 | 1801 | |
| 44 | 1806 | 1812 | 1818 | 1824 | 1830 | 1836 | 1841 | 1847 | 1853 | 1859 | |
| 45 | 87 1865 | 1871 | 1876 | 1882 | 1888 | 1894 | 1900 | 1906 | 1911 | 1917 | |
| 46 | 1923 | 1929 | 1935 | 1941 | 1946 | 1952 | 1958 | 1964 | 1970 | 1976 | |
| 47 | 1981 | 1987 | 1993 | 1999 | 2005 | 2011 | 2016 | 2022 | 2028 | 2034 | |
| 48 | 2040 | 2045 | 2051 | 2057 | 2063 | 2069 | 2075 | 2080 | 2086 | 2092 | |
| 49 | 2098 | 2104 | 2110 | 2115 | 2121 | 2127 | 2133 | 2139 | 2145 | 2150 | |
| 7450 | 87 2156 | 2162 | 2168 | 2174 | 2180 | 2185 | 2191 | 2197 | 2203 | 2209 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 74000" = 20° 33' 20" | | | | 74000" = 2° 3' 20" | | S. 4,685 | 482 | T. 761 | | |
| | 74100 = 20 35 0 | | | | 7410 = 2 3 30 | | | 481 | 762 | | |
| | 74200 = 20 36 40 | | | | 7420 = 2 3 40 | | | 481 | 762 | | |
| | 74300 = 20 38 20 | | | | 7430 = 2 3 50 | | | 481 | 763 | | |
| | 74400 = 20 40 0 | | | | 7440 = 2 4 0 | | | 481 | 763 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------|------|------|------|------|--------|--------|------|----------|------|--------|
| 7500 | 87 5061 | 5067 | 5073 | 5079 | 5084 | 5090 | 5096 | 5102 | 5108 | 5113 | |
| 01 | 5119 | 5125 | 5131 | 5137 | 5142 | 5148 | 5154 | 5160 | 5165 | 5171 | |
| 02 | 5177 | 5183 | 5189 | 5194 | 5200 | 5206 | 5212 | 5218 | 5223 | 5229 | |
| 03 | 5235 | 5241 | 5247 | 5252 | 5258 | 5264 | 5270 | 5275 | 5281 | 5287 | |
| 04 | 5293 | 5299 | 5304 | 5310 | 5316 | 5322 | 5328 | 5333 | 5339 | 5345 | |
| 05 | 87 5351 | 5356 | 5362 | 5368 | 5374 | 5380 | 5385 | 5391 | 5397 | 5403 | |
| 06 | 5409 | 5414 | 5420 | 5426 | 5432 | 5437 | 5443 | 5449 | 5455 | 5461 | |
| 07 | 5466 | 5472 | 5478 | 5484 | 5490 | 5495 | 5501 | 5507 | 5513 | 5518 | |
| 08 | 5524 | 5530 | 5536 | 5542 | 5547 | 5553 | 5559 | 5565 | 5571 | 5576 | |
| 09 | 5582 | 5588 | 5594 | 5599 | 5605 | 5611 | 5617 | 5623 | 5628 | 5634 | |
| 7510 | 87 5640 | 5646 | 5652 | 5657 | 5663 | 5669 | 5675 | 5680 | 5686 | 5692 | |
| 11 | 5698 | 5704 | 5709 | 5715 | 5721 | 5727 | 5732 | 5738 | 5744 | 5750 | 6 |
| 12 | 5756 | 5761 | 5767 | 5773 | 5779 | 5784 | 5790 | 5796 | 5802 | 5808 | 1 0.6 |
| 13 | 5813 | 5819 | 5825 | 5831 | 5837 | 5842 | 5848 | 5854 | 5860 | 5865 | 2 1.2 |
| 14 | 5871 | 5877 | 5883 | 5889 | 5894 | 5900 | 5906 | 5912 | 5917 | 5923 | 3 1.8 |
| 15 | 87 5929 | 5935 | 5941 | 5946 | 5952 | 5958 | 5964 | 5969 | 5975 | 5981 | 4 2.4 |
| 16 | 5987 | 5993 | 5998 | 6004 | 6010 | 6016 | 6021 | 6027 | 6033 | 6039 | 5 3.0 |
| 17 | 6045 | 6050 | 6056 | 6062 | 6068 | 6073 | 6079 | 6085 | 6091 | 6097 | 6 3.6 |
| 18 | 6102 | 6108 | 6114 | 6120 | 6125 | 6131 | 6137 | 6143 | 6149 | 6154 | 7 4.2 |
| 19 | 6160 | 6166 | 6172 | 6177 | 6183 | 6189 | 6195 | 6201 | 6206 | 6212 | 8 4.8 |
| 7520 | 87 6218 | 6224 | 6229 | 6235 | 6241 | 6247 | 6252 | 6258 | 6264 | 6270 | 9 5.4 |
| 21 | 6276 | 6281 | 6287 | 6293 | 6299 | 6304 | 6310 | 6316 | 6322 | 6328 | |
| 22 | 6333 | 6339 | 6345 | 6351 | 6356 | 6362 | 6368 | 6374 | 6380 | 6385 | |
| 23 | 6391 | 6397 | 6403 | 6408 | 6414 | 6420 | 6426 | 6431 | 6437 | 6443 | |
| 24 | 6449 | 6455 | 6460 | 6466 | 6472 | 6478 | 6483 | 6489 | 6495 | 6501 | |
| 25 | 87 6507 | 6512 | 6518 | 6524 | 6530 | 6535 | 6541 | 6547 | 6553 | 6558 | |
| 26 | 6564 | 6570 | 6576 | 6582 | 6587 | 6593 | 6599 | 6605 | 6610 | 6616 | |
| 27 | 6622 | 6628 | 6633 | 6639 | 6645 | 6651 | 6657 | 6662 | 6668 | 6674 | |
| 28 | 6680 | 6685 | 6691 | 6697 | 6703 | 6708 | 6714 | 6720 | 6726 | 6732 | |
| 29 | 6737 | 6743 | 6749 | 6755 | 6760 | 6766 | 6772 | 6778 | 6783 | 6789 | |
| 7530 | 87 6795 | 6801 | 6807 | 6812 | 6818 | 6824 | 6830 | 6835 | 6841 | 6847 | |
| 31 | 6853 | 6858 | 6864 | 6870 | 6876 | 6881 | 6887 | 6893 | 6899 | 6905 | 5 |
| 32 | 6910 | 6916 | 6922 | 6928 | 6933 | 6939 | 6945 | 6951 | 6956 | 6962 | 1 0.5 |
| 33 | 6968 | 6974 | 6979 | 6985 | 6991 | 6997 | 7003 | 7008 | 7014 | 7020 | 2 1.0 |
| 34 | 7026 | 7031 | 7037 | 7043 | 7049 | 7054 | 7060 | 7066 | 7072 | 7077 | 3 1.5 |
| 35 | 87 7083 | 7089 | 7095 | 7101 | 7106 | 7112 | 7118 | 7124 | 7129 | 7135 | 4 2.0 |
| 36 | 7141 | 7147 | 7152 | 7158 | 7164 | 7170 | 7175 | 7181 | 7187 | 7193 | 5 2.5 |
| 37 | 7199 | 7204 | 7210 | 7216 | 7222 | 7227 | 7233 | 7239 | 7245 | 7250 | 6 3.0 |
| 38 | 7256 | 7262 | 7268 | 7273 | 7279 | 7285 | 7291 | 7296 | 7302 | 7308 | 7 3.5 |
| 39 | 7314 | 7320 | 7325 | 7331 | 7337 | 7343 | 7348 | 7354 | 7360 | 7366 | 8 4.0 |
| 7540 | 87 7371 | 7377 | 7383 | 7389 | 7394 | 7400 | 7406 | 7412 | 7417 | 7423 | 9 4.5 |
| 41 | 7429 | 7435 | 7440 | 7446 | 7452 | 7458 | 7463 | 7469 | 7475 | 7481 | |
| 42 | 7487 | 7492 | 7498 | 7504 | 7510 | 7515 | 7521 | 7527 | 7533 | 7538 | |
| 43 | 7544 | 7550 | 7556 | 7561 | 7567 | 7573 | 7579 | 7584 | 7590 | 7596 | |
| 44 | 7602 | 7607 | 7613 | 7619 | 7625 | 7630 | 7636 | 7642 | 7648 | 7653 | |
| 45 | 87 7659 | 7665 | 7671 | 7677 | 7682 | 7688 | 7694 | 7700 | 7705 | 7711 | |
| 46 | 7717 | 7723 | 7728 | 7734 | 7740 | 7746 | 7751 | 7757 | 7763 | 7769 | |
| 47 | 7774 | 7780 | 7786 | 7792 | 7797 | 7803 | 7809 | 7815 | 7820 | 7826 | |
| 48 | 7832 | 7838 | 7843 | 7849 | 7855 | 7861 | 7866 | 7872 | 7878 | 7884 | |
| 49 | 7889 | 7895 | 7901 | 7907 | 7912 | 7918 | 7924 | 7930 | 7935 | 7941 | |
| 7550 | 87 7947 | 7953 | 7958 | 7964 | 7970 | 7976 | 7981 | 7987 | 7993 | 7999 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 75000" | 20° 50' | 0" | | | | 75000" | 2° 51' | 0" | S. 4,685 | 479 | T. 766 |
| 75100 | 20 51 | 40 | | | | 7510 | 2 5 | 10 | | 479 | 767 |
| 75200 | 20 53 | 20 | | | | 7520 | 2 5 | 20 | | 479 | 767 |
| 75300 | 20 55 | 0 | | | | 7530 | 2 5 | 30 | | 478 | 768 |
| 75400 | 20 56 | 40 | | | | 7540 | 2 5 | 40 | | 478 | 768 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|-------------------|------|------|------|--------------|--------|-----|
| 7550 | 87 7947 | 7953 | 7958 | 7964 | 7970 | 7976 | 7981 | 7987 | 7993 | 7999 | |
| 51 | 8004 | 8010 | 8016 | 8022 | 8027 | 8033 | 8039 | 8045 | 8050 | 8056 | |
| 52 | 8062 | 8068 | 8073 | 8079 | 8085 | 8091 | 8096 | 8102 | 8108 | 8114 | |
| 53 | 8119 | 8125 | 8131 | 8137 | 8142 | 8148 | 8154 | 8160 | 8165 | 8171 | |
| 54 | 8177 | 8183 | 8188 | 8194 | 8200 | 8206 | 8211 | 8217 | 8223 | 8229 | |
| 55 | 87 8234 | 8240 | 8246 | 8252 | 8257 | 8263 | 8269 | 8275 | 8280 | 8286 | |
| 56 | 8292 | 8298 | 8303 | 8309 | 8315 | 8321 | 8326 | 8332 | 8338 | 8344 | |
| 57 | 8349 | 8355 | 8361 | 8367 | 8372 | 8378 | 8384 | 8390 | 8395 | 8401 | |
| 58 | 8407 | 8413 | 8418 | 8424 | 8430 | 8436 | 8441 | 8447 | 8453 | 8459 | |
| 59 | 8464 | 8470 | 8476 | 8482 | 8487 | 8493 | 8499 | 8505 | 8510 | 8516 | |
| 7560 | 87 8522 | 8528 | 8533 | 8539 | 8545 | 8551 | 8556 | 8562 | 8568 | 8573 | |
| 61 | 8579 | 8585 | 8591 | 8596 | 8602 | 8608 | 8614 | 8619 | 8625 | 8631 | |
| 62 | 8637 | 8642 | 8648 | 8654 | 8660 | 8665 | 8671 | 8677 | 8683 | 8688 | |
| 63 | 8694 | 8700 | 8706 | 8711 | 8717 | 8723 | 8729 | 8734 | 8740 | 8746 | |
| 64 | 8752 | 8757 | 8763 | 8769 | 8774 | 8780 | 8786 | 8792 | 8797 | 8803 | |
| 65 | 87 8809 | 8815 | 8820 | 8826 | 8832 | 8838 | 8843 | 8849 | 8855 | 8861 | |
| 66 | 8866 | 8872 | 8878 | 8884 | 8889 | 8895 | 8901 | 8907 | 8912 | 8918 | |
| 67 | 8924 | 8929 | 8935 | 8941 | 8947 | 8952 | 8958 | 8964 | 8970 | 8975 | |
| 68 | 8981 | 8987 | 8993 | 8998 | 9004 | 9010 | 9016 | 9021 | 9027 | 9033 | |
| 69 | 9039 | 9044 | 9050 | 9056 | 9061 | 9067 | 9073 | 9079 | 9084 | 9090 | |
| 7570 | 87 9096 | 9102 | 9107 | 9113 | 9119 | 9125 | 9130 | 9136 | 9142 | 9148 | |
| 71 | 9153 | 9159 | 65 | 9170 | 9176 | 9182 | 9188 | 9193 | 9199 | 9205 | |
| 72 | 9211 | 9216 | 9222 | 9228 | 9234 | 9239 | 9245 | 9251 | 9256 | 9262 | |
| 73 | 9268 | 9274 | 9279 | 9285 | 9291 | 9297 | 9302 | 9308 | 9314 | 9320 | |
| 74 | 9325 | 9331 | 9337 | 9343 | 9348 | 9354 | 9360 | 9365 | 9371 | 9377 | |
| 75 | 87 9383 | 9388 | 9394 | 9400 | 9406 | 9411 | 9417 | 9423 | 9429 | 9434 | |
| 76 | 9440 | 9446 | 9451 | 9457 | 9463 | 9469 | 9474 | 9480 | 9486 | 9492 | |
| 77 | 9497 | 9503 | 9509 | 9514 | 9520 | 9526 | 9532 | 9537 | 9543 | 9549 | |
| 78 | 9555 | 9560 | 9566 | 9572 | 9578 | 9583 | 9589 | 9595 | 9600 | 9606 | |
| 79 | 9612 | 9618 | 9623 | 9629 | 9635 | 9641 | 9646 | 9652 | 9658 | 9663 | |
| 7580 | 87 9669 | 9675 | 9681 | 9686 | 9692 | 9698 | 9704 | 9709 | 9715 | 9721 | |
| 81 | 9726 | 9732 | 9738 | 9744 | 9749 | 9755 | 9761 | 9767 | 9772 | 9778 | |
| 82 | 9784 | 9790 | 9795 | 9801 | 9807 | 9812 | 9818 | 9824 | 9830 | 9835 | |
| 83 | 9841 | 9847 | 9853 | 9858 | 9864 | 9870 | 9875 | 9881 | 9887 | 9893 | |
| 84 | 89 9898 | 9904 | 9910 | 9916 | 9921 | 9927 | 9933 | 9938 | 9944 | 9950 | |
| 85 | 87 9956 | 9961 | 9967 | 9973 | 9978 | 9984 | 9990 | 9996 | 10001 | 10007 | |
| 86 | 88 0013 | 0019 | 0024 | 0030 | 0036 | 0041 | 0047 | 0053 | 0059 | 0064 | |
| 87 | 0070 | 0076 | 0082 | 0087 | 0093 | 0099 | 0104 | 0110 | 0116 | 0122 | |
| 88 | 0127 | 0133 | 0139 | 0144 | 0150 | 0156 | 0162 | 0167 | 0173 | 0179 | |
| 89 | 0185 | 0190 | 0196 | 0202 | 0207 | 0213 | 0219 | 0225 | 0230 | 0236 | |
| 7590 | 88 0242 | 0247 | 0253 | 0259 | 0265 | 0270 | 0276 | 0282 | 0288 | 0293 | |
| 91 | 0299 | 0305 | 0310 | 0316 | 0322 | 0328 | 0333 | 0339 | 0345 | 0350 | |
| 92 | 0356 | 0362 | 0368 | 0373 | 0379 | 0385 | 0391 | 0396 | 0402 | 0408 | |
| 93 | 0413 | 0419 | 0425 | 0431 | 0436 | 0442 | 0448 | 0453 | 0459 | 0465 | |
| 94 | 0471 | 0476 | 0482 | 0488 | 0493 | 0499 | 0505 | 0511 | 0516 | 0522 | |
| 95 | 88 0528 | 0533 | 0539 | 0545 | 0551 | 0556 | 0562 | 0568 | 0574 | 0579 | |
| 96 | 0585 | 0591 | 0596 | 0602 | 0608 | 0614 | 0619 | 0625 | 0631 | 0636 | |
| 97 | 0642 | 0648 | 0654 | 0659 | 0665 | 0671 | 0676 | 0682 | 0688 | 0694 | |
| 98 | 0699 | 0705 | 0711 | 0716 | 0722 | 0728 | 0734 | 0739 | 0745 | 0751 | |
| 99 | 0756 | 0762 | 0768 | 0774 | 0779 | 0785 | 0791 | 0796 | 0802 | 0808 | |
| 7600 | 88 0814 | 0819 | 0825 | 0831 | 0836 | 0842 | 0848 | 0854 | 0859 | 0865 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 75500" | 20° 58' 20" | | | | 7550" = 2° 5' 50" | | | | S. 4,685 478 | T. 769 | |
| 75600 | 21 0 0 | | | | 7560 = 2 6 0 | | | | 478 | 769 | |
| 75700 | 21 1 40 | | | | 7570 = 2 6 10 | | | | 477 | 770 | |
| 75800 | 21 3 20 | | | | 7580 = 2 6 20 | | | | 477 | 770 | |
| 75900 | 21 5 0 | | | | 7590 = 2 6 30 | | | | 477 | 771 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|--------------|------|------|--------------------|------|------|--------------|------|------|--------|-------|
| 7650 | 88 3661 | 3667 | 3673 | 3678 | 3684 | 3690 | 3695 | 3701 | 3707 | 3713 | |
| 51 | 3718 | 3724 | 3730 | 3735 | 3741 | 3747 | 3752 | 3758 | 3764 | 3769 | |
| 52 | 3775 | 3781 | 3786 | 3792 | 3798 | 3803 | 3809 | 3815 | 3820 | 3826 | |
| 53 | 3832 | 3837 | 3843 | 3849 | 3854 | 3860 | 3866 | 3871 | 3877 | 3883 | |
| 54 | 3888 | 3894 | 3900 | 3905 | 3911 | 3917 | 3923 | 3928 | 3934 | 3940 | |
| 55 | 88 3945 | 3951 | 3957 | 3962 | 3968 | 3974 | 3979 | 3985 | 3991 | 3996 | |
| 56 | 4002 | 4008 | 4013 | 4019 | 4025 | 4030 | 4036 | 4042 | 4047 | 4053 | |
| 57 | 4059 | 4064 | 4070 | 4076 | 4081 | 4087 | 4093 | 4098 | 4104 | 4110 | |
| 58 | 4115 | 4121 | 4127 | 4132 | 4138 | 4144 | 4149 | 4155 | 4161 | 4166 | |
| 59 | 4172 | 4178 | 4183 | 4189 | 4195 | 4200 | 4206 | 4212 | 4217 | 4223 | |
| 7660 | 88 4229 | 4234 | 4240 | 4246 | 4251 | 4257 | 4263 | 4268 | 4274 | 4280 | |
| 61 | 4285 | 4291 | 4297 | 4302 | 4308 | 4314 | 4319 | 4325 | 4331 | 4336 | 6 |
| 62 | 4342 | 4348 | 4353 | 4359 | 4365 | 4370 | 4376 | 4382 | 4387 | 4393 | 1 0.6 |
| 63 | 4399 | 4404 | 4410 | 4416 | 4421 | 4427 | 4433 | 4438 | 4444 | 4450 | 2 1.2 |
| 64 | 88 4455 | 4461 | 4467 | 4472 | 4478 | 4484 | 4489 | 4495 | 4501 | 4506 | 3 1.8 |
| 65 | 4512 | 4518 | 4523 | 4529 | 4535 | 4540 | 4546 | 4552 | 4557 | 4563 | 4 2.4 |
| 66 | 4569 | 4574 | 4580 | 4586 | 4591 | 4597 | 4603 | 4608 | 4614 | 4620 | 5 3.0 |
| 67 | 4625 | 4631 | 4637 | 4642 | 4648 | 4654 | 4659 | 4665 | 4671 | 4676 | 6 3.6 |
| 68 | 4682 | 4688 | 4693 | 4699 | 4705 | 4710 | 4716 | 4722 | 4727 | 4733 | 7 4.2 |
| 69 | 4739 | 4744 | 4750 | 4756 | 4761 | 4767 | 4773 | 4778 | 4784 | 4790 | 8 4.8 |
| 7670 | 88 4795 | 4801 | 4807 | 4812 | 4818 | 4824 | 4829 | 4835 | 4841 | 4846 | 9 5.4 |
| 71 | 4852 | 4858 | 4863 | 4869 | 4875 | 4880 | 4886 | 4892 | 4897 | 4903 | |
| 72 | 4909 | 4914 | 4920 | 4926 | 4931 | 4937 | 4943 | 4948 | 4954 | 4960 | |
| 73 | 4965 | 4971 | 4977 | 4982 | 4988 | 4993 | 4999 | 5005 | 5010 | 5016 | |
| 74 | 5022 | 5027 | 5033 | 5039 | 5044 | 5050 | 5056 | 5061 | 5067 | 5073 | |
| 75 | 88 5078 | 5084 | 5090 | 5095 | 5101 | 5107 | 5112 | 5118 | 5124 | 5129 | |
| 76 | 5135 | 5141 | 5146 | 5152 | 5158 | 5163 | 5169 | 5175 | 5180 | 5186 | |
| 77 | 5192 | 5197 | 5203 | 5209 | 5214 | 5220 | 5225 | 5231 | 5237 | 5242 | |
| 78 | 5248 | 5254 | 5259 | 5265 | 5271 | 5276 | 5282 | 5288 | 5293 | 5299 | |
| 79 | 5305 | 5310 | 5316 | 5322 | 5327 | 5333 | 5339 | 5344 | 5350 | 5356 | |
| 7680 | 88 5361 | 5367 | 5373 | 5378 | 5384 | 5389 | 5395 | 5401 | 5406 | 5412 | |
| 81 | 5418 | 5423 | 5429 | 5435 | 5440 | 5446 | 5452 | 5457 | 5463 | 5469 | 5 |
| 82 | 5474 | 5480 | 5486 | 5491 | 5497 | 5503 | 5508 | 5514 | 5520 | 5525 | 1 0.5 |
| 83 | 5531 | 5536 | 5542 | 5548 | 5553 | 5559 | 5565 | 5570 | 5576 | 5582 | 2 1.0 |
| 84 | 88 5587 | 5593 | 5599 | 5604 | 5610 | 5616 | 5621 | 5627 | 5633 | 5638 | 3 1.5 |
| 85 | 5644 | 5650 | 5655 | 5661 | 5666 | 5672 | 5678 | 5683 | 5689 | 5695 | 4 2.0 |
| 86 | 5700 | 5706 | 5712 | 5717 | 5723 | 5729 | 5734 | 5740 | 5746 | 5751 | 5 2.5 |
| 87 | 5757 | 5763 | 5768 | 5774 | 5779 | 5785 | 5791 | 5796 | 5802 | 5808 | 6 3.0 |
| 88 | 5813 | 5819 | 5825 | 5830 | 5836 | 5842 | 5847 | 5853 | 5859 | 5864 | 7 3.5 |
| 89 | 5870 | 5876 | 5881 | 5887 | 5892 | 5898 | 5904 | 5909 | 5915 | 5921 | 8 4.0 |
| 7690 | 88 5926 | 5932 | 5938 | 5943 | 5949 | 5955 | 5960 | 5966 | 5972 | 5977 | 9 4.5 |
| 91 | 5983 | 5988 | 5994 | 6000 | 6005 | 6011 | 6017 | 6022 | 6028 | 6034 | |
| 92 | 6039 | 6045 | 6051 | 6056 | 6062 | 6068 | 6073 | 6079 | 6084 | 6090 | |
| 93 | 6096 | 6101 | 6107 | 6113 | 6118 | 6124 | 6130 | 6135 | 6141 | 6147 | |
| 94 | 88 6152 | 6158 | 6163 | 6169 | 6175 | 6180 | 6186 | 6192 | 6197 | 6203 | |
| 95 | 6209 | 6214 | 6220 | 6226 | 6231 | 6237 | 6242 | 6248 | 6254 | 6259 | |
| 96 | 6265 | 6271 | 6276 | 6282 | 6288 | 6293 | 6299 | 6305 | 6310 | 6316 | |
| 97 | 6321 | 6327 | 6333 | 6338 | 6344 | 6350 | 6355 | 6361 | 6367 | 6372 | |
| 98 | 6378 | 6384 | 6389 | 6395 | 6400 | 6406 | 6412 | 6417 | 6423 | 6429 | |
| 99 | 6434 | 6440 | 6446 | 6451 | 6457 | 6463 | 6468 | 6474 | 6479 | 6485 | |
| 7700 | 88 6491 | 6496 | 6502 | 6508 | 6513 | 6519 | 6525 | 6530 | 6536 | 6541 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 76500" | = 21° 15' 0" | | | 76500' = 2° 7' 30" | | | S. 4,685 475 | | | T. 774 | |
| 76600 | = 21 16 40 | | | 76600 = 2 7 40 | | | 475 | | | 775 | |
| 76700 | = 21 18 20 | | | 76700 = 2 7 50 | | | 475 | | | 775 | |
| 76800 | = 21 20 0 | | | 76800 = 2 8 0 | | | 475 | | | 776 | |
| 76900 | = 21 21 40 | | | 76900 = 2 8 10 | | | 474 | | | 776 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|-------------------|------|------|----------|------|--------|-------|
| 7700 | 88 6491 | 6496 | 6502 | 6508 | 6513 | 6519 | 6525 | 6530 | 6536 | 6541 | |
| 01 | 6547 | 6553 | 6558 | 6564 | 6570 | 6575 | 6581 | 6587 | 6592 | 6598 | |
| 02 | 6604 | 6609 | 6615 | 6620 | 6626 | 6632 | 6637 | 6643 | 6649 | 6654 | |
| 03 | 6660 | 6666 | 6671 | 6677 | 6682 | 6688 | 6694 | 6699 | 6705 | 6711 | |
| 04 | 6716 | 6722 | 6728 | 6733 | 6739 | 6744 | 6750 | 6756 | 6761 | 6767 | |
| 05 | 88 6773 | 6778 | 6784 | 6790 | 6795 | 6801 | 6806 | 6812 | 6818 | 6823 | |
| 06 | 6829 | 6835 | 6840 | 6846 | 6852 | 6857 | 6863 | 6868 | 6874 | 6880 | |
| 07 | 6885 | 6891 | 6897 | 6902 | 6908 | 6914 | 6919 | 6925 | 6930 | 6936 | |
| 08 | 6942 | 6947 | 6953 | 6959 | 6964 | 6970 | 6976 | 6981 | 6987 | 6992 | |
| 09 | 6998 | 7004 | 7009 | 7015 | 7021 | 7026 | 7032 | 7037 | 7043 | 7049 | |
| 7710 | 88 7054 | 7060 | 7066 | 7071 | 7077 | 7083 | 7088 | 7094 | 7099 | 7105 | |
| 11 | 7111 | 7116 | 7122 | 7128 | 7133 | 7139 | 7144 | 7150 | 7156 | 7161 | 6 |
| 12 | 7167 | 7173 | 7178 | 7184 | 7190 | 7195 | 7201 | 7206 | 7212 | 7218 | 1 0.6 |
| 13 | 7223 | 7229 | 7235 | 7240 | 7246 | 7251 | 7257 | 7263 | 7268 | 7274 | 2 1.2 |
| 14 | 7280 | 7285 | 7291 | 7297 | 7302 | 7308 | 7313 | 7319 | 7325 | 7330 | 3 1.8 |
| 15 | 88 7336 | 7342 | 7347 | 7353 | 7358 | 7364 | 7370 | 7375 | 7381 | 7387 | 4 2.4 |
| 16 | 7392 | 7398 | 7403 | 7409 | 7415 | 7420 | 7426 | 7432 | 7437 | 7443 | 5 3.0 |
| 17 | 7449 | 7454 | 7460 | 7465 | 7471 | 7477 | 7482 | 7488 | 7494 | 7499 | 6 3.6 |
| 18 | 7505 | 7510 | 7516 | 7522 | 7527 | 7533 | 7539 | 7544 | 7550 | 7555 | 7 4.2 |
| 19 | 7561 | 7567 | 7572 | 7578 | 7584 | 7589 | 7595 | 7600 | 7606 | 7612 | 8 4.8 |
| 7720 | 88 7617 | 7623 | 7629 | 7634 | 7640 | 7645 | 7651 | 7657 | 7662 | 7668 | 9 5.4 |
| 21 | 7674 | 7679 | 7685 | 7690 | 7696 | 7702 | 7707 | 7713 | 7719 | 7724 | |
| 22 | 7730 | 7735 | 7741 | 7747 | 7752 | 7758 | 7764 | 7769 | 7775 | 7780 | |
| 23 | 7786 | 7792 | 7797 | 7803 | 7809 | 7814 | 7820 | 7825 | 7831 | 7837 | |
| 24 | 7842 | 7848 | 7854 | 7859 | 7865 | 7870 | 7876 | 7882 | 7887 | 7893 | |
| 25 | 88 7898 | 7904 | 7910 | 7915 | 7921 | 7927 | 7932 | 7938 | 7943 | 7949 | |
| 26 | 7955 | 7960 | 7966 | 7972 | 7977 | 7983 | 7988 | 7994 | 8000 | 8005 | |
| 27 | 8011 | 8017 | 8022 | 8028 | 8033 | 8039 | 8045 | 8050 | 8056 | 8061 | |
| 28 | 8067 | 8073 | 8078 | 8084 | 8090 | 8095 | 8101 | 8106 | 8112 | 8118 | |
| 29 | 8123 | 8129 | 8135 | 8140 | 8146 | 8151 | 8157 | 8163 | 8168 | 8174 | |
| 7730 | 88 8179 | 8185 | 8191 | 8196 | 8202 | 8208 | 8213 | 8219 | 8224 | 8230 | |
| 31 | 8236 | 8241 | 8247 | 8253 | 8258 | 8264 | 8269 | 8275 | 8281 | 8286 | 5 |
| 32 | 8292 | 8297 | 8303 | 8309 | 8314 | 8320 | 8326 | 8331 | 8337 | 8342 | 1 0.5 |
| 33 | 8348 | 8354 | 8359 | 8365 | 8370 | 8376 | 8382 | 8387 | 8393 | 8399 | 2 1.0 |
| 34 | 8404 | 8410 | 8415 | 8421 | 8427 | 8432 | 8438 | 8443 | 8449 | 8455 | 3 1.5 |
| 35 | 88 8460 | 8466 | 8472 | 8477 | 8483 | 8488 | 8494 | 8500 | 8505 | 8511 | 4 2.0 |
| 36 | 8516 | 8522 | 8528 | 8533 | 8539 | 8545 | 8550 | 8556 | 8561 | 8567 | 5 2.5 |
| 37 | 8573 | 8578 | 8584 | 8589 | 8595 | 8601 | 8606 | 8612 | 8618 | 8623 | 6 3.0 |
| 38 | 8629 | 8634 | 8640 | 8646 | 8651 | 8657 | 8662 | 8668 | 8674 | 8679 | 7 3.5 |
| 39 | 8685 | 8690 | 8696 | 8702 | 8707 | 8713 | 8719 | 8724 | 8730 | 8735 | 8 4.0 |
| 7740 | 88 8741 | 8747 | 8752 | 8758 | 8763 | 8769 | 8775 | 8780 | 8786 | 8791 | 9 4.5 |
| 41 | 8797 | 8803 | 8808 | 8814 | 8820 | 8825 | 8831 | 8836 | 8842 | 8848 | |
| 42 | 8853 | 8859 | 8864 | 8870 | 8876 | 8881 | 8887 | 8892 | 8898 | 8904 | |
| 43 | 8909 | 8915 | 8920 | 8926 | 8932 | 8937 | 8943 | 8949 | 8954 | 8960 | |
| 44 | 8965 | 8971 | 8977 | 8982 | 8988 | 8993 | 8999 | 9005 | 9010 | 9016 | |
| 45 | 88 9021 | 9027 | 9033 | 9038 | 9044 | 9049 | 9055 | 9061 | 9066 | 9072 | |
| 46 | 9077 | 9083 | 9089 | 9094 | 9100 | 9106 | 9111 | 9117 | 9122 | 9128 | |
| 47 | 9134 | 9139 | 9145 | 9150 | 9156 | 9162 | 9167 | 9173 | 9178 | 9184 | |
| 48 | 9190 | 9195 | 9201 | 9206 | 9212 | 9218 | 9223 | 9229 | 9234 | 9240 | |
| 49 | 9246 | 9251 | 9257 | 9262 | 9268 | 9274 | 9279 | 9285 | 9290 | 9296 | |
| 7750 | 88 9302 | 9307 | 9313 | 9319 | 9324 | 9330 | 9335 | 9341 | 9347 | 9352 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 77000" = 21° 23' 20" | | | | 7700" = 2° 8' 20" | | | S. 4,685 | 474 | T. 777 | |
| | 77100 = 21 25 0 | | | | 7710 = 2 8 30 | | | | 474 | 777 | |
| | 77200 = 21 26 40 | | | | 7720 = 2 8 40 | | | | 473 | 778 | |
| | 77300 = 21 28 20 | | | | 7730 = 2 8 50 | | | | 473 | 778 | |
| | 77400 = 21 30 0 | | | | 7740 = 2 9 0 | | | | 473 | 779 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|------|--------------------|----------|------|--------|------|-------|
| 7750 | 88 9302 | 9307 | 9313 | 9319 | 9324 | 9330 | 9335 | 9341 | 9347 | 9352 | |
| 51 | 9358 | 9363 | 9369 | 9375 | 9380 | 9386 | 9391 | 9397 | 9403 | 9408 | |
| 52 | 9414 | 9419 | 9425 | 9431 | 9436 | 9442 | 9447 | 9453 | 9459 | 9464 | |
| 53 | 9470 | 9475 | 9481 | 9487 | 9492 | 9498 | 9503 | 9509 | 9515 | 9520 | |
| 54 | 9526 | 9531 | 9537 | 9543 | 9548 | 9554 | 9559 | 9565 | 9571 | 9576 | |
| 55 | 88 9582 | 9587 | 9593 | 9599 | 9604 | 9610 | 9615 | 9621 | 9627 | 9632 | |
| 56 | 9638 | 9643 | 9649 | 9655 | 9660 | 9666 | 9671 | 9677 | 9683 | 9688 | |
| 57 | 9694 | 9699 | 9705 | 9711 | 9716 | 9722 | 9727 | 9733 | 9739 | 9744 | |
| 58 | 9750 | 9755 | 9761 | 9767 | 9772 | 9778 | 9783 | 9789 | 9795 | 9800 | |
| 59 | 9806 | 9811 | 9817 | 9823 | 9828 | 9834 | 9839 | 9845 | 9851 | 9856 | |
| 7760 | 88 9862 | 9867 | 9873 | 9879 | 9884 | 9890 | 9895 | 9901 | 9906 | 9912 | |
| 61 | 9918 | 9923 | 9929 | 9934 | 9940 | 9946 | 9951 | 9957 | 9962 | 9968 | 6 |
| 62 | 9974 | 9979 | 9985 | 9990 | 9996 | 0002 | 0007 | 0013 | 0018 | 0024 | 1 0.6 |
| 63 | 89 0030 | 0035 | 0041 | 0046 | 0052 | 0058 | 0063 | 0069 | 0074 | 0080 | 2 1.2 |
| 64 | 0086 | 0091 | 0097 | 0102 | 0108 | 0113 | 0119 | 0125 | 0130 | 0136 | 3 1.8 |
| 65 | 89 0141 | 0147 | 0153 | 0158 | 0164 | 0169 | 0175 | 0181 | 0186 | 0192 | 4 2.4 |
| 66 | 0197 | 0203 | 0209 | 0214 | 0220 | 0225 | 0231 | 0237 | 0242 | 0248 | 5 3.0 |
| 67 | 0253 | 0259 | 0264 | 0270 | 0276 | 0281 | 0287 | 0292 | 0298 | 0304 | 6 3.6 |
| 68 | 0309 | 0315 | 0320 | 0326 | 0332 | 0337 | 0343 | 0348 | 0354 | 0360 | 7 4.2 |
| 69 | 0365 | 0371 | 0376 | 0382 | 0387 | 0393 | 0399 | 0404 | 0410 | 0415 | 8 4.8 |
| 7770 | 89 0421 | 0427 | 0432 | 0438 | 0443 | 0449 | 0455 | 0460 | 0466 | 0471 | 9 5.4 |
| 71 | 0477 | 0482 | 0488 | 0494 | 0499 | 0505 | 0510 | 0516 | 0522 | 0527 | |
| 72 | 0533 | 0538 | 0544 | 0550 | 0555 | 0561 | 0566 | 0572 | 0577 | 0583 | |
| 73 | 0589 | 0594 | 0600 | 0605 | 0611 | 0617 | 0622 | 0628 | 0633 | 0639 | |
| 74 | 0645 | 0650 | 0656 | 0661 | 0667 | 0672 | 0678 | 0684 | 0689 | 0695 | |
| 75 | 89 0700 | 0706 | 0712 | 0717 | 0723 | 0728 | 0734 | 0739 | 0745 | 0751 | |
| 76 | 0756 | 0762 | 0767 | 0773 | 0779 | 0784 | 0790 | 0795 | 0801 | 0807 | |
| 77 | 0812 | 0818 | 0823 | 0829 | 0834 | 0840 | 0846 | 0851 | 0857 | 0862 | |
| 78 | 0868 | 0874 | 0879 | 0885 | 0890 | 0896 | 0901 | 0907 | 0913 | 0918 | |
| 79 | 0924 | 0929 | 0935 | 0940 | 0946 | 0951 | 0957 | 0962 | 0968 | 0973 | |
| 7780 | 89 0980 | 0985 | 0991 | 0996 | 1002 | 1008 | 1013 | 1019 | 1024 | 1030 | |
| 81 | 1035 | 1041 | 1047 | 1052 | 1058 | 1063 | 1069 | 1074 | 1080 | 1086 | 5 |
| 82 | 1091 | 1097 | 1102 | 1108 | 1114 | 1119 | 1125 | 1130 | 1136 | 1141 | 1 0.5 |
| 83 | 1147 | 1153 | 1158 | 1164 | 1169 | 1175 | 1181 | 1186 | 1192 | 1197 | 2 1.0 |
| 84 | 1203 | 1208 | 1214 | 1220 | 1225 | 1231 | 1236 | 1242 | 1247 | 1253 | 3 1.5 |
| 85 | 89 1259 | 1264 | 1270 | 1275 | 1281 | 1287 | 1292 | 1298 | 1303 | 1309 | 4 2.0 |
| 86 | 1314 | 1320 | 1326 | 1331 | 1337 | 1342 | 1348 | 1353 | 1359 | 1365 | 5 2.5 |
| 87 | 1370 | 1375 | 1381 | 1387 | 1392 | 1398 | 1404 | 1409 | 1415 | 1420 | 6 3.0 |
| 88 | 1426 | 1432 | 1437 | 1443 | 1448 | 1454 | 1459 | 1465 | 1471 | 1476 | 7 3.5 |
| 89 | 1482 | 1487 | 1493 | 1498 | 1504 | 1510 | 1515 | 1521 | 1526 | 1532 | 8 4.0 |
| 7790 | 89 1537 | 1543 | 1549 | 1554 | 1560 | 1565 | 1571 | 1576 | 1582 | 1588 | 9 4.5 |
| 91 | 1593 | 1599 | 1604 | 1610 | 1616 | 1621 | 1627 | 1632 | 1638 | 1643 | |
| 92 | 1649 | 1655 | 1660 | 1666 | 1671 | 1677 | 1682 | 1688 | 1694 | 1699 | |
| 93 | 1705 | 1710 | 1716 | 1721 | 1727 | 1733 | 1738 | 1744 | 1749 | 1755 | |
| 94 | 1760 | 1766 | 1772 | 1777 | 1783 | 1788 | 1794 | 1799 | 1805 | 1811 | |
| 95 | 89 1816 | 1822 | 1827 | 1833 | 1838 | 1844 | 1850 | 1855 | 1861 | 1866 | |
| 96 | 1872 | 1877 | 1883 | 1889 | 1894 | 1900 | 1905 | 1911 | 1916 | 1922 | |
| 97 | 1928 | 1933 | 1939 | 1944 | 1950 | 1955 | 1961 | 1967 | 1972 | 1978 | |
| 98 | 1983 | 1989 | 1994 | 2000 | 2006 | 2011 | 2017 | 2022 | 2028 | 2033 | |
| 99 | 2039 | 2044 | 2050 | 2056 | 2061 | 2067 | 2072 | 2078 | 2083 | 2089 | |
| 7800 | 89 2095 | 2100 | 2106 | 2111 | 2117 | 2122 | 2128 | 2134 | 2139 | 2145 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 77500" | 21° 31' 40" | | | | | 77500" = 2° 9' 10" | S. 4.685 | 473 | T. 779 | | |
| 77600 | 21 33 20 | | | | | 77600 = 2 9 20 | | 472 | 780 | | |
| 77700 | 21 35 0 | | | | | 77700 = 2 9 30 | | 472 | 780 | | |
| 77800 | 21 36 40 | | | | | 77800 = 2 9 40 | | 472 | 781 | | |
| 77900 | 21 38 20 | | | | | 77900 = 2 9 50 | | 472 | 781 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|-------------------|------|----------|------|--------|------|-------|
| 7800 | 89 2095 | 2100 | 2106 | 2111 | 2117 | 2122 | 2128 | 2134 | 2139 | 2145 | |
| 01 | 2150 | 2156 | 2161 | 2167 | 2173 | 2178 | 2184 | 2189 | 2195 | 2200 | |
| 02 | 2206 | 2212 | 2217 | 2223 | 2228 | 2234 | 2239 | 2245 | 2250 | 2256 | |
| 03 | 2262 | 2267 | 2273 | 2278 | 2284 | 2289 | 2295 | 2301 | 2306 | 2312 | |
| 04 | 2317 | 2323 | 2328 | 2334 | 2340 | 2345 | 2351 | 2356 | 2362 | 2367 | |
| 05 | 89 2373 | 2378 | 2384 | 2390 | 2395 | 2401 | 2406 | 2412 | 2417 | 2423 | |
| 06 | 2429 | 2434 | 2440 | 2445 | 2451 | 2456 | 2462 | 2467 | 2473 | 2479 | |
| 07 | 2484 | 2490 | 2495 | 2501 | 2506 | 2512 | 2518 | 2523 | 2529 | 2534 | |
| 08 | 2540 | 2545 | 2551 | 2556 | 2562 | 2568 | 2573 | 2579 | 2584 | 2590 | |
| 09 | 2595 | 2601 | 2607 | 2612 | 2618 | 2623 | 2629 | 2634 | 2640 | 2645 | |
| 7810 | 89 2651 | 2657 | 2662 | 2668 | 2673 | 2679 | 2684 | 2690 | 2696 | 2701 | |
| 11 | 2707 | 2712 | 2718 | 2723 | 2729 | 2734 | 2740 | 2746 | 2751 | 2757 | 6 |
| 12 | 2762 | 2768 | 2773 | 2779 | 2784 | 2790 | 2796 | 2801 | 2807 | 2812 | 1 0.6 |
| 13 | 2818 | 2823 | 2829 | 2834 | 2840 | 2846 | 2851 | 2857 | 2862 | 2868 | 2 1.2 |
| 14 | 2873 | 2879 | 2885 | 2890 | 2896 | 2901 | 2907 | 2912 | 2918 | 2923 | 3 1.8 |
| 15 | 89 2929 | 2935 | 2940 | 2946 | 2951 | 2957 | 2962 | 2968 | 2973 | 2979 | 4 2.4 |
| 16 | 2985 | 2990 | 2996 | 3001 | 3007 | 3012 | 3018 | 3023 | 3029 | 3035 | 5 3.0 |
| 17 | 3040 | 3046 | 3051 | 3057 | 3062 | 3068 | 3073 | 3079 | 3085 | 3090 | 6 3.6 |
| 18 | 3096 | 3101 | 3107 | 3112 | 3118 | 3123 | 3129 | 3135 | 3140 | 3146 | 7 4.2 |
| 19 | 3151 | 3157 | 3162 | 3168 | 3173 | 3179 | 3185 | 3190 | 3196 | 3201 | 8 4.8 |
| 7820 | 89 3207 | 3212 | 3218 | 3223 | 3229 | 3235 | 3240 | 3246 | 3251 | 3257 | 9 5.4 |
| 21 | 3262 | 3268 | 3273 | 3279 | 3284 | 3290 | 3296 | 3301 | 3307 | 3312 | |
| 22 | 3318 | 3323 | 3329 | 3334 | 3340 | 3346 | 3351 | 3357 | 3362 | 3368 | |
| 23 | 3373 | 3379 | 3384 | 3390 | 3396 | 3401 | 3407 | 3412 | 3418 | 3423 | |
| 24 | 3429 | 3434 | 3440 | 3445 | 3451 | 3457 | 3462 | 3468 | 3473 | 3479 | |
| 25 | 89 3484 | 3490 | 3495 | 3501 | 3507 | 3512 | 3518 | 3523 | 3529 | 3534 | |
| 26 | 3540 | 3545 | 3551 | 3556 | 3562 | 3568 | 3573 | 3579 | 3584 | 3590 | |
| 27 | 3595 | 3601 | 3606 | 3612 | 3618 | 3623 | 3629 | 3634 | 3640 | 3645 | |
| 28 | 3651 | 3656 | 3662 | 3667 | 3673 | 3679 | 3684 | 3690 | 3695 | 3701 | |
| 29 | 3706 | 3712 | 3717 | 3723 | 3728 | 3734 | 3740 | 3745 | 3751 | 3756 | |
| 7830 | 89 3762 | 3767 | 3773 | 3778 | 3784 | 3789 | 3795 | 3801 | 3806 | 3812 | |
| 31 | 3817 | 3823 | 3828 | 3834 | 3839 | 3845 | 3850 | 3856 | 3862 | 3867 | 5 |
| 32 | 3873 | 3878 | 3884 | 3889 | 3895 | 3900 | 3906 | 3911 | 3917 | 3923 | 1 0.5 |
| 33 | 3928 | 3934 | 3939 | 3945 | 3950 | 3956 | 3961 | 3967 | 3972 | 3978 | 2 1.0 |
| 34 | 3984 | 3989 | 3995 | 4000 | 4006 | 4011 | 4017 | 4022 | 4028 | 4033 | 3 1.5 |
| 35 | 89 4039 | 4045 | 4050 | 4056 | 4061 | 4067 | 4072 | 4078 | 4083 | 4089 | 4 2.0 |
| 36 | 4094 | 4100 | 4106 | 4111 | 4117 | 4122 | 4128 | 4133 | 4139 | 4144 | 5 2.5 |
| 37 | 4150 | 4155 | 4161 | 4166 | 4172 | 4178 | 4183 | 4189 | 4194 | 4200 | 6 3.0 |
| 38 | 4205 | 4211 | 4216 | 4222 | 4227 | 4233 | 4239 | 4244 | 4250 | 4255 | 7 3.5 |
| 39 | 4261 | 4266 | 4272 | 4277 | 4283 | 4288 | 4294 | 4299 | 4305 | 4311 | 8 4.0 |
| 7840 | 89 4316 | 4322 | 4327 | 4333 | 4338 | 4344 | 4349 | 4355 | 4360 | 4366 | 9 4.5 |
| 41 | 4371 | 4377 | 4383 | 4388 | 4394 | 4399 | 4405 | 4410 | 4416 | 4421 | |
| 42 | 4427 | 4432 | 4438 | 4443 | 4449 | 4455 | 4460 | 4466 | 4471 | 4477 | |
| 43 | 4482 | 4488 | 4493 | 4499 | 4504 | 4510 | 4515 | 4521 | 4527 | 4532 | |
| 44 | 4538 | 4543 | 4549 | 4554 | 4560 | 4565 | 4571 | 4576 | 4582 | 4587 | |
| 45 | 89 4593 | 4598 | 4604 | 4610 | 4615 | 4621 | 4626 | 4632 | 4637 | 4643 | |
| 46 | 4648 | 4654 | 4659 | 4665 | 4670 | 4676 | 4682 | 4687 | 4693 | 4698 | |
| 47 | 4704 | 4709 | 4715 | 4720 | 4726 | 4731 | 4737 | 4742 | 4748 | 4753 | |
| 48 | 4759 | 4765 | 4770 | 4776 | 4781 | 4787 | 4792 | 4798 | 4803 | 4809 | |
| 49 | 4814 | 4820 | 4825 | 4831 | 4836 | 4842 | 4848 | 4853 | 4859 | 4864 | |
| 7850 | 89 4870 | 4875 | 4881 | 4886 | 4892 | 4897 | 4903 | 4908 | 4914 | 4919 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 78000" = 21° 40' 0" | | | | 7800" = 2° 10' 0" | | S. 4.685 | 471 | T. 782 | | |
| | 78100 = 21 41 40 | | | | 7810 = 2 10 10 | | | 471 | 782 | | |
| | 78200 = 21 43 20 | | | | 7820 = 2 10 20 | | | 471 | 783 | | |
| | 78300 = 21 45 0 | | | | 7830 = 2 10 30 | | | 471 | 784 | | |
| | 78400 = 21 46 40 | | | | 7840 = 2 10 40 | | | 470 | 784 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|--------------------|------|------|----------|------|------|------|--|
| 7850 | 89 4870 | 4875 | 4881 | 4886 | 4892 | 4897 | 4903 | 4908 | 4914 | 4919 | 6 1 0.6 2 1.2 3 1.4 4 2.4 5 3.0 6 3.6 7 4.2 8 4.8 9 5.4 |
| 51 | 4925 | 4931 | 4936 | 4942 | 4947 | 4953 | 4958 | 4964 | 4969 | 4975 | |
| 52 | 4980 | 4986 | 4991 | 4997 | 5002 | 5008 | 5013 | 5019 | 5025 | 5030 | |
| 53 | 5036 | 5041 | 5047 | 5052 | 5058 | 5063 | 5069 | 5074 | 5080 | 5085 | |
| 54 | 5091 | 5096 | 5102 | 5107 | 5113 | 5119 | 5124 | 5130 | 5135 | 5141 | |
| 55 | 89 5146 | 5152 | 5157 | 5163 | 5168 | 5174 | 5179 | 5185 | 5190 | 5196 | |
| 56 | 5201 | 5207 | 5213 | 5218 | 5224 | 5229 | 5235 | 5240 | 5246 | 5251 | |
| 57 | 5257 | 5262 | 5268 | 5273 | 5279 | 5284 | 5290 | 5295 | 5301 | 5306 | |
| 58 | 5312 | 5318 | 5323 | 5329 | 5334 | 5340 | 5345 | 5351 | 5356 | 5362 | |
| 59 | 5367 | 5373 | 5378 | 5384 | 5389 | 5395 | 5400 | 5406 | 5411 | 5417 | |
| 7860 | 89 5423 | 5428 | 5434 | 5439 | 5445 | 5450 | 5456 | 5461 | 5467 | 5472 | |
| 61 | 5478 | 5483 | 5489 | 5494 | 5500 | 5505 | 5511 | 5516 | 5522 | 5528 | |
| 62 | 5533 | 5539 | 5544 | 5550 | 5555 | 5561 | 5566 | 5572 | 5577 | 5583 | |
| 63 | 5588 | 5594 | 5599 | 5605 | 5610 | 5616 | 5621 | 5627 | 5632 | 5638 | |
| 64 | 5644 | 5649 | 5655 | 5660 | 5666 | 5671 | 5677 | 5682 | 5688 | 5693 | |
| 65 | 89 5699 | 5704 | 5710 | 5715 | 5721 | 5726 | 5732 | 5737 | 5743 | 5748 | |
| 66 | 5754 | 5759 | 5765 | 5771 | 5776 | 5782 | 5787 | 5793 | 5798 | 5804 | |
| 67 | 5809 | 5815 | 5820 | 5826 | 5831 | 5837 | 5842 | 5848 | 5853 | 5859 | |
| 68 | 5864 | 5870 | 5875 | 5881 | 5886 | 5892 | 5897 | 5903 | 5909 | 5914 | |
| 69 | 5920 | 5925 | 5931 | 5936 | 5942 | 5947 | 5953 | 5958 | 5964 | 5969 | |
| 7870 | 89 5975 | 5980 | 5986 | 5991 | 5997 | 6002 | 6008 | 6013 | 6019 | 6024 | |
| 71 | 6030 | 6035 | 6041 | 6046 | 6052 | 6057 | 6063 | 6069 | 6074 | 6080 | 5 1 0.5 2 1.0 3 1.5 4 2.0 5 2.5 6 3.0 7 3.5 8 4.0 9 4.5 |
| 72 | 6085 | 6091 | 6096 | 6102 | 6107 | 6113 | 6118 | 6124 | 6129 | 6135 | |
| 73 | 6140 | 6146 | 6151 | 6157 | 6162 | 6168 | 6173 | 6179 | 6184 | 6190 | |
| 74 | 6195 | 6201 | 6206 | 6212 | 6217 | 6223 | 6229 | 6234 | 6240 | 6245 | |
| 75 | 89 6251 | 6256 | 6262 | 6267 | 6273 | 6278 | 6284 | 6289 | 6295 | 6300 | |
| 76 | 6306 | 6311 | 6317 | 6322 | 6328 | 6333 | 6339 | 6344 | 6350 | 6355 | |
| 77 | 6361 | 6366 | 6372 | 6377 | 6383 | 6388 | 6394 | 6399 | 6405 | 6410 | |
| 78 | 6416 | 6421 | 6427 | 6433 | 6438 | 6444 | 6449 | 6455 | 6460 | 6466 | |
| 79 | 6471 | 6477 | 6482 | 6488 | 6493 | 6499 | 6504 | 6510 | 6515 | 6521 | |
| 7880 | 89 6526 | 6532 | 6537 | 6543 | 6548 | 6554 | 6559 | 6565 | 6570 | 6576 | |
| 81 | 6581 | 6587 | 6592 | 6598 | 6603 | 6609 | 6614 | 6620 | 6625 | 6631 | |
| 82 | 6636 | 6642 | 6647 | 6653 | 6658 | 6664 | 6669 | 6675 | 6681 | 6686 | |
| 83 | 6692 | 6697 | 6703 | 6708 | 6714 | 6719 | 6725 | 6730 | 6736 | 6741 | |
| 84 | 6747 | 6752 | 6758 | 6763 | 6769 | 6774 | 6780 | 6785 | 6791 | 6796 | |
| 85 | 89 6802 | 6807 | 6813 | 6818 | 6824 | 6829 | 6835 | 6840 | 6846 | 6851 | |
| 86 | 6857 | 6862 | 6868 | 6873 | 6879 | 6884 | 6890 | 6895 | 6901 | 6906 | |
| 87 | 6912 | 6917 | 6923 | 6928 | 6934 | 6939 | 6945 | 6950 | 6956 | 6961 | |
| 88 | 6967 | 6972 | 6978 | 6983 | 6989 | 6994 | 7000 | 7005 | 7011 | 7016 | |
| 89 | 7022 | 7027 | 7033 | 7038 | 7044 | 7049 | 7055 | 7060 | 7066 | 7071 | |
| 7890 | 89 7077 | 7083 | 7088 | 7094 | 7099 | 7105 | 7110 | 7116 | 7121 | 7127 | |
| 91 | 7132 | 7138 | 7143 | 7149 | 7154 | 7160 | 7165 | 7171 | 7176 | 7182 | T. 785 470 785 469 786 469 786 469 787 |
| 92 | 7187 | 7193 | 7198 | 7204 | 7209 | 7215 | 7220 | 7226 | 7231 | 7237 | |
| 93 | 7242 | 7248 | 7253 | 7259 | 7264 | 7270 | 7275 | 7281 | 7286 | 7292 | |
| 94 | 7297 | 7303 | 7308 | 7314 | 7319 | 7325 | 7330 | 7336 | 7341 | 7347 | |
| 95 | 89 7352 | 7358 | 7363 | 7369 | 7374 | 7380 | 7385 | 7391 | 7396 | 7402 | |
| 96 | 7407 | 7413 | 7418 | 7424 | 7429 | 7435 | 7440 | 7446 | 7451 | 7457 | |
| 97 | 7462 | 7468 | 7473 | 7479 | 7484 | 7490 | 7495 | 7501 | 7506 | 7512 | |
| 98 | 7517 | 7523 | 7528 | 7534 | 7539 | 7545 | 7550 | 7556 | 7561 | 7567 | |
| 99 | 7572 | 7578 | 7583 | 7589 | 7594 | 7600 | 7605 | 7611 | 7616 | 7622 | |
| 7900 | 89 7627 | 7633 | 7638 | 7644 | 7649 | 7655 | 7660 | 7666 | 7671 | 7677 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 78500 | = 21° 48' 20" | | | 7850' = 2° 10' 50" | | | S. 4.685 | | | 470 | T. 785 |
| 78600 | = 21 50 0 | | | 7860 = 2 11 0 | | | | | | 470 | 785 |
| 78700 | = 21 51 40 | | | 7870 = 2 11 10 | | | | | | 469 | 786 |
| 78800 | = 21 53 20 | | | 7880 = 2 11 20 | | | | | | 469 | 786 |
| 78900 | = 21 55 0 | | | 7890 = 2 11 30 | | | | | | 469 | 787 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|---------------------|------|------|----------|------|--------|-------|
| 7900 | 89 7627 | 7633 | 7638 | 7644 | 7649 | 7655 | 7660 | 7666 | 7671 | 7677 | |
| 01 | 7682 | 7688 | 7693 | 7699 | 7704 | 7710 | 7715 | 7721 | 7726 | 7732 | |
| 02 | 7737 | 7743 | 7748 | 7754 | 7759 | 7765 | 7770 | 7775 | 7781 | 7786 | |
| 03 | 7792 | 7797 | 7803 | 7808 | 7814 | 7819 | 7825 | 7830 | 7836 | 7841 | |
| 04 | 7847 | 7852 | 7858 | 7863 | 7869 | 7874 | 7880 | 7885 | 7891 | 7896 | |
| 05 | 89 7902 | 7907 | 7913 | 7918 | 7924 | 7929 | 7935 | 7940 | 7946 | 7951 | |
| 06 | 7957 | 7962 | 7968 | 7973 | 7979 | 7984 | 7990 | 7995 | 8001 | 8006 | |
| 07 | 8012 | 8017 | 8023 | 8028 | 8034 | 8039 | 8045 | 8050 | 8056 | 8061 | |
| 08 | 8067 | 8072 | 8078 | 8083 | 8089 | 8094 | 8100 | 8105 | 8111 | 8116 | |
| 09 | 8122 | 8127 | 8133 | 8138 | 8144 | 8149 | 8155 | 8160 | 8166 | 8171 | |
| 7910 | 89 8176 | 8182 | 8187 | 8193 | 8198 | 8204 | 8209 | 8215 | 8220 | 8226 | |
| 11 | 8231 | 8237 | 8242 | 8248 | 8253 | 8259 | 8264 | 8270 | 8275 | 8281 | 6 |
| 12 | 8286 | 8292 | 8297 | 8303 | 8308 | 8314 | 8319 | 8325 | 8330 | 8336 | 1 0.6 |
| 13 | 8341 | 8347 | 8352 | 8358 | 8363 | 8369 | 8374 | 8380 | 8385 | 8391 | 2 1.2 |
| 14 | 8396 | 8402 | 8407 | 8413 | 8418 | 8423 | 8429 | 8434 | 8440 | 8445 | 3 1.8 |
| 15 | 89 8451 | 8456 | 8462 | 8467 | 8473 | 8478 | 8484 | 8489 | 8495 | 8500 | 4 2.4 |
| 16 | 8506 | 8511 | 8517 | 8522 | 8528 | 8533 | 8539 | 8544 | 8550 | 8555 | 5 3.0 |
| 17 | 8561 | 8566 | 8572 | 8577 | 8583 | 8588 | 8594 | 8599 | 8605 | 8610 | 6 3.6 |
| 18 | 8615 | 8621 | 8626 | 8632 | 8637 | 8643 | 8648 | 8654 | 8659 | 8665 | 7 4.2 |
| 19 | 8670 | 8676 | 8681 | 8687 | 8692 | 8698 | 8703 | 8709 | 8714 | 8720 | 8 4.8 |
| 7920 | 89 8725 | 8731 | 8736 | 8742 | 8747 | 8753 | 8758 | 8764 | 8769 | 8775 | 9 5.4 |
| 21 | 8780 | 8785 | 8791 | 8796 | 8802 | 8807 | 8813 | 8818 | 8824 | 8829 | |
| 22 | 8835 | 8840 | 8846 | 8851 | 8857 | 8862 | 8868 | 8873 | 8879 | 8884 | |
| 23 | 8890 | 8895 | 8901 | 8906 | 8912 | 8917 | 8923 | 8928 | 8934 | 8939 | |
| 24 | 8944 | 8950 | 8955 | 8961 | 8966 | 8972 | 8977 | 8983 | 8988 | 8994 | |
| 25 | 89 8999 | 9005 | 9010 | 9016 | 9021 | 9027 | 9032 | 9038 | 9043 | 9049 | |
| 26 | 9054 | 9060 | 9065 | 9071 | 9076 | 9081 | 9087 | 9092 | 9098 | 9103 | |
| 27 | 9109 | 9114 | 9120 | 9125 | 9131 | 9136 | 9142 | 9147 | 9153 | 9158 | |
| 28 | 9164 | 9169 | 9175 | 9180 | 9186 | 9191 | 9197 | 9202 | 9207 | 9213 | |
| 29 | 9218 | 9224 | 9229 | 9235 | 9240 | 9246 | 9251 | 9257 | 9262 | 9268 | |
| 7930 | 89 9273 | 9279 | 9284 | 9290 | 9295 | 9301 | 9306 | 9312 | 9317 | 9322 | |
| 31 | 9328 | 9333 | 9339 | 9344 | 9350 | 9355 | 9361 | 9366 | 9372 | 9377 | 5 |
| 32 | 9383 | 9388 | 9394 | 9399 | 9405 | 9410 | 9416 | 9421 | 9427 | 9432 | 1 0.5 |
| 33 | 9437 | 9443 | 9448 | 9454 | 9459 | 9465 | 9470 | 9476 | 9481 | 9487 | 2 1.0 |
| 34 | 9492 | 9498 | 9503 | 9509 | 9514 | 9520 | 9525 | 9531 | 9536 | 9541 | 3 1.5 |
| 35 | 89 9547 | 9552 | 9558 | 9563 | 9569 | 9574 | 9580 | 9585 | 9591 | 9596 | 4 2.0 |
| 36 | 9602 | 9607 | 9613 | 9618 | 9624 | 9629 | 9634 | 9640 | 9645 | 9651 | 5 2.5 |
| 37 | 9656 | 9662 | 9667 | 9673 | 9678 | 9684 | 9689 | 9695 | 9700 | 9706 | 6 3.0 |
| 38 | 9711 | 9717 | 9722 | 9728 | 9733 | 9738 | 9744 | 9749 | 9755 | 9760 | 7 3.5 |
| 39 | 9766 | 9771 | 9777 | 9782 | 9788 | 9793 | 9799 | 9804 | 9810 | 9815 | 8 4.0 |
| 7940 | 89 9821 | 9826 | 9831 | 9837 | 9842 | 9848 | 9853 | 9859 | 9864 | 9870 | 9 4.5 |
| 41 | 9875 | 9881 | 9886 | 9892 | 9897 | 9903 | 9908 | 9913 | 9919 | 9924 | |
| 42 | 9930 | 9935 | 9941 | 9946 | 9952 | 9957 | 9963 | 9968 | 9974 | 9979 | |
| 43 | 9985 | 9990 | 9995 | 0001 | 0006 | 0012 | 0017 | 0023 | 0028 | 0034 | |
| 44 | 90 0039 | 0045 | 0050 | 0056 | 0061 | 0067 | 0072 | 0078 | 0083 | 0088 | |
| 45 | 90 0094 | 0099 | 0105 | 0110 | 0116 | 0121 | 0127 | 0132 | 0138 | 0143 | |
| 46 | 0149 | 0154 | 0159 | 0165 | 0170 | 0176 | 0181 | 0187 | 0192 | 0198 | |
| 47 | 0203 | 0209 | 0214 | 0220 | 0225 | 0231 | 0236 | 0241 | 0247 | 0252 | |
| 48 | 0258 | 0263 | 0269 | 0274 | 0280 | 0285 | 0291 | 0296 | 0302 | 0307 | |
| 49 | 0312 | 0318 | 0323 | 0329 | 0334 | 0340 | 0345 | 0351 | 0356 | 0362 | |
| 7950 | 90 0367 | 0373 | 0378 | 0384 | 0389 | 0394 | 0400 | 0405 | 0411 | 0416 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 79000" = 21° 56' 40" | | | | 79000" = 2° 11' 40" | | | S. 4.685 | 469 | T. 787 | |
| | 79100 = 21 58 20 | | | | 7910 = 2 11 50 | | | | 468 | 788 | |
| | 79200 = 22 0 0 | | | | 7920 = 2 12 0 | | | | 468 | 788 | |
| | 79300 = 22 1 40 | | | | 7930 = 2 12 10 | | | | 468 | 789 | |
| | 79400 = 22 3 20 | | | | 7940 = 2 12 20 | | | | 468 | 789 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-------------|------|------|------|------|-------|--------------|----------|------|--------|-----|
| 7950 | 90 0367 | 0373 | 0378 | 0384 | 0389 | 0394 | 0400 | 0405 | 0411 | 0416 | |
| 51 | 0422 | 0427 | 0433 | 0438 | 0444 | 0449 | 0455 | 0460 | 0465 | 0471 | |
| 52 | 0476 | 0482 | 0487 | 0493 | 0498 | 0504 | 0509 | 0515 | 0520 | 0526 | |
| 53 | 0531 | 0536 | 0542 | 0547 | 0553 | 0558 | 0564 | 0569 | 0575 | 0580 | |
| 54 | 0586 | 0591 | 0597 | 0602 | 0607 | 0613 | 0618 | 0624 | 0629 | 0635 | |
| 55 | 90 0640 | 0646 | 0651 | 0657 | 0662 | 0667 | 0673 | 0678 | 0684 | 0689 | |
| 56 | 0695 | 0700 | 0706 | 0711 | 0717 | 0722 | 0728 | 0733 | 0738 | 0744 | |
| 57 | 0749 | 0755 | 0760 | 0766 | 0771 | 0777 | 0782 | 0788 | 0793 | 0798 | |
| 58 | 0804 | 0809 | 0815 | 0820 | 0826 | 0831 | 0837 | 0842 | 0848 | 0853 | |
| 59 | 0859 | 0864 | 0869 | 0875 | 0880 | 0886 | 0891 | 0897 | 0902 | 0908 | |
| 7960 | 90 0913 | 0919 | 0924 | 0929 | 0935 | 0940 | 0946 | 0951 | 0957 | 0962 | |
| 61 | 0968 | 0973 | 0979 | 0984 | 0989 | 0995 | 1000 | 1006 | 1011 | 1017 | 6 |
| 62 | 1022 | 1028 | 1033 | 1039 | 1044 | 1049 | 1055 | 1060 | 1066 | 1071 | 1 |
| 63 | 1077 | 1082 | 1088 | 1093 | 1099 | 1104 | 1109 | 1115 | 1120 | 1126 | 2 |
| 64 | 1131 | 1137 | 1142 | 1148 | 1153 | 1159 | 1164 | 1169 | 1175 | 1180 | 3 |
| 65 | 90 1186 | 1191 | 1197 | 1202 | 1208 | 1213 | 1218 | 1224 | 1229 | 1235 | 4 |
| 66 | 1240 | 1246 | 1251 | 1257 | 1262 | 1268 | 1273 | 1278 | 1284 | 1289 | 5 |
| 67 | 1295 | 1300 | 1306 | 1311 | 1317 | 1322 | 1328 | 1333 | 1338 | 1344 | 6 |
| 68 | 1349 | 1355 | 1360 | 1366 | 1371 | 1377 | 1382 | 1387 | 1393 | 1398 | 7 |
| 69 | 1404 | 1409 | 1415 | 1420 | 1426 | 1431 | 1437 | 1442 | 1447 | 1453 | 8 |
| 7970 | 90 1458 | 1464 | 1469 | 1475 | 1480 | 1486 | 1491 | 1496 | 1502 | 1507 | 9 |
| 71 | 1513 | 1518 | 1524 | 1529 | 1535 | 1540 | 1545 | 1551 | 1556 | 1562 | 5.4 |
| 72 | 1567 | 1573 | 1578 | 1584 | 1589 | 1595 | 1600 | 1605 | 1611 | 1616 | |
| 73 | 1622 | 1627 | 1633 | 1638 | 1644 | 1649 | 1654 | 1660 | 1665 | 1671 | |
| 74 | 1676 | 1682 | 1687 | 1693 | 1698 | 1703 | 1709 | 1714 | 1720 | 1725 | |
| 75 | 90 1731 | 1736 | 1742 | 1747 | 1752 | 1758 | 1763 | 1769 | 1774 | 1780 | |
| 76 | 1785 | 1791 | 1796 | 1801 | 1807 | 1812 | 1818 | 1823 | 1829 | 1834 | |
| 77 | 1840 | 1845 | 1850 | 1856 | 1861 | 1867 | 1872 | 1878 | 1883 | 1889 | |
| 78 | 1894 | 1899 | 1905 | 1910 | 1916 | 1921 | 1927 | 1932 | 1938 | 1943 | |
| 79 | 1948 | 1954 | 1959 | 1965 | 1970 | 1976 | 1981 | 1987 | 1992 | 1997 | |
| 7980 | 90 2003 | 2008 | 2014 | 2019 | 2025 | 2030 | 2036 | 2041 | 2046 | 2052 | |
| 81 | 2057 | 2063 | 2068 | 2074 | 2079 | 2085 | 2090 | 2095 | 2101 | 2106 | 5 |
| 82 | 2112 | 2117 | 2123 | 2128 | 2133 | 2139 | 2144 | 2150 | 2155 | 2161 | 1 |
| 83 | 2166 | 2172 | 2177 | 2182 | 2188 | 2193 | 2199 | 2204 | 2210 | 2215 | 2 |
| 84 | 2221 | 2226 | 2231 | 2237 | 2242 | 2248 | 2253 | 2259 | 2264 | 2269 | 3 |
| 85 | 90 2275 | 2280 | 2286 | 2291 | 2297 | 2302 | 2308 | 2313 | 2318 | 2324 | 4 |
| 86 | 2329 | 2335 | 2340 | 2346 | 2351 | 2356 | 2362 | 2367 | 2373 | 2378 | 5 |
| 87 | 2384 | 2389 | 2395 | 2400 | 2405 | 2411 | 2416 | 2422 | 2427 | 2433 | 6 |
| 88 | 2438 | 2443 | 2449 | 2454 | 2460 | 2465 | 2471 | 2476 | 2482 | 2487 | 7 |
| 89 | 2492 | 2498 | 2503 | 2509 | 2514 | 2520 | 2525 | 2530 | 2536 | 2541 | 8 |
| 7990 | 90 2547 | 2552 | 2558 | 2563 | 2569 | 2574 | 2579 | 2585 | 2590 | 2596 | 9 |
| 91 | 2601 | 2607 | 2612 | 2617 | 2623 | 2628 | 2634 | 2639 | 2645 | 2650 | |
| 92 | 2655 | 2661 | 2666 | 2672 | 2677 | 2683 | 2688 | 2694 | 2699 | 2704 | |
| 93 | 2710 | 2715 | 2721 | 2726 | 2732 | 2737 | 2742 | 2748 | 2753 | 2759 | |
| 94 | 2764 | 2770 | 2775 | 2780 | 2786 | 2791 | 2797 | 2802 | 2808 | 2813 | |
| 95 | 90 2818 | 2824 | 2829 | 2835 | 2840 | 2846 | 2851 | 2856 | 2862 | 2867 | |
| 96 | 2873 | 2878 | 2884 | 2889 | 2895 | 2900 | 2905 | 2911 | 2916 | 2922 | |
| 97 | 2927 | 2933 | 2938 | 2943 | 2949 | 2954 | 2960 | 2965 | 2971 | 2976 | |
| 98 | 2981 | 2987 | 2992 | 2998 | 3003 | 3009 | 3014 | 3019 | 3025 | 3030 | |
| 99 | 3036 | 3041 | 3047 | 3052 | 3057 | 3063 | 3068 | 3074 | 3079 | 3085 | |
| 8000 | 90 3090 | 3095 | 3101 | 3106 | 3112 | 3117 | 3123 | 3128 | 3133 | 3139 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 79500 | = 22° 5' 0" | | | | | 79500 | = 2° 12' 30" | S. 4,685 | 467 | T. 790 | |
| 79600 | = 22 6 40 | | | | | 79600 | = 2 12 40 | | 467 | 791 | |
| 79700 | = 22 8 20 | | | | | 79700 | = 2 12 50 | | 467 | 791 | |
| 79800 | = 22 10 0 | | | | | 79800 | = 2 13 0 | | 467 | 792 | |
| 79900 | = 22 11 40 | | | | | 79900 | = 2 13 10 | | 466 | 792 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|---------------------|------|----------|------|--------|------|-------|
| 8000 | 90 3090 | 3095 | 3101 | 3106 | 3112 | 3117 | 3123 | 3128 | 3133 | 3139 | |
| 01 | 3144 | 3150 | 3155 | 3161 | 3166 | 3171 | 3177 | 3182 | 3188 | 3193 | |
| 02 | 3199 | 3204 | 3209 | 3215 | 3220 | 3226 | 3231 | 3237 | 3242 | 3247 | |
| 03 | 3253 | 3258 | 3264 | 3269 | 3275 | 3280 | 3285 | 3291 | 3296 | 3302 | |
| 04 | 3307 | 3313 | 3318 | 3323 | 3329 | 3334 | 3340 | 3345 | 3350 | 3356 | |
| 05 | 90 3361 | 3367 | 3372 | 3378 | 3383 | 3388 | 3394 | 3399 | 3405 | 3410 | |
| 06 | 3416 | 3421 | 3426 | 3432 | 3437 | 3443 | 3448 | 3454 | 3459 | 3464 | |
| 07 | 3470 | 3475 | 3481 | 3486 | 3492 | 3497 | 3502 | 3508 | 3513 | 3519 | |
| 08 | 3524 | 3529 | 3535 | 3540 | 3546 | 3551 | 3557 | 3562 | 3567 | 3573 | |
| 09 | 3578 | 3584 | 3589 | 3595 | 3600 | 3605 | 3611 | 3616 | 3622 | 3627 | |
| 8010 | 90 3633 | 3638 | 3643 | 3649 | 3654 | 3660 | 3665 | 3670 | 3676 | 3681 | |
| 11 | 3687 | 3692 | 3698 | 3703 | 3708 | 3714 | 3719 | 3725 | 3730 | 3736 | 6 |
| 12 | 3741 | 3746 | 3752 | 3757 | 3763 | 3768 | 3773 | 3779 | 3784 | 3790 | 1 0.6 |
| 13 | 3795 | 3801 | 3806 | 3811 | 3817 | 3822 | 3828 | 3833 | 3838 | 3844 | 2 1.2 |
| 14 | 3849 | 3855 | 3860 | 3866 | 3871 | 3876 | 3882 | 3887 | 3893 | 3898 | 3 1.8 |
| 15 | 90 3904 | 3909 | 3914 | 3920 | 3925 | 3931 | 3936 | 3941 | 3947 | 3952 | 4 2.4 |
| 16 | 3958 | 3963 | 3969 | 3974 | 3979 | 3985 | 3990 | 3996 | 4001 | 4006 | 5 3.0 |
| 17 | 4012 | 4017 | 4023 | 4028 | 4034 | 4039 | 4044 | 4050 | 4055 | 4061 | 6 3.6 |
| 18 | 4066 | 4071 | 4077 | 4082 | 4088 | 4093 | 4099 | 4104 | 4109 | 4115 | 7 4.2 |
| 19 | 4120 | 4126 | 4131 | 4136 | 4142 | 4147 | 4153 | 4158 | 4164 | 4169 | 8 4.8 |
| 8020 | 90 4174 | 4180 | 4185 | 4191 | 4196 | 4201 | 4207 | 4212 | 4218 | 4223 | 9 5.4 |
| 21 | 4229 | 4234 | 4239 | 4245 | 4250 | 4256 | 4261 | 4266 | 4272 | 4277 | |
| 22 | 4283 | 4288 | 4293 | 4299 | 4304 | 4310 | 4315 | 4321 | 4326 | 4331 | |
| 23 | 4337 | 4342 | 4348 | 4353 | 4358 | 4364 | 4369 | 4375 | 4380 | 4386 | |
| 24 | 4391 | 4396 | 4402 | 4407 | 4413 | 4418 | 4423 | 4429 | 4434 | 4440 | |
| 25 | 90 4445 | 4450 | 4456 | 4461 | 4467 | 4472 | 4478 | 4483 | 4488 | 4494 | |
| 26 | 4499 | 4505 | 4510 | 4515 | 4521 | 4526 | 4532 | 4537 | 4542 | 4548 | |
| 27 | 4553 | 4559 | 4564 | 4569 | 4575 | 4580 | 4586 | 4591 | 4597 | 4602 | |
| 28 | 4607 | 4613 | 4618 | 4624 | 4629 | 4634 | 4640 | 4645 | 4651 | 4656 | |
| 29 | 4661 | 4667 | 4672 | 4678 | 4683 | 4689 | 4694 | 4699 | 4705 | 4710 | |
| 8030 | 90 4716 | 4721 | 4726 | 4732 | 4737 | 4743 | 4748 | 4753 | 4759 | 4764 | |
| 31 | 4770 | 4775 | 4780 | 4786 | 4791 | 4797 | 4802 | 4807 | 4813 | 4818 | 5 |
| 32 | 4824 | 4829 | 4835 | 4840 | 4845 | 4851 | 4856 | 4862 | 4867 | 4872 | 1 0.5 |
| 33 | 4878 | 4883 | 4889 | 4894 | 4899 | 4905 | 4910 | 4916 | 4921 | 4926 | 2 1.0 |
| 34 | 4932 | 4937 | 4943 | 4948 | 4953 | 4959 | 4964 | 4970 | 4975 | 4980 | 3 1.5 |
| 35 | 90 4986 | 4991 | 4997 | 5002 | 5008 | 5013 | 5018 | 5024 | 5029 | 5035 | 4 2.0 |
| 36 | 5040 | 5045 | 5051 | 5056 | 5062 | 5067 | 5072 | 5078 | 5083 | 5089 | 5 2.5 |
| 37 | 5094 | 5099 | 5105 | 5110 | 5116 | 5121 | 5126 | 5132 | 5137 | 5143 | 6 3.0 |
| 38 | 5148 | 5153 | 5159 | 5164 | 5170 | 5175 | 5180 | 5186 | 5191 | 5197 | 7 3.5 |
| 39 | 5202 | 5207 | 5213 | 5218 | 5224 | 5229 | 5234 | 5240 | 5245 | 5251 | 8 4.0 |
| 8040 | 90 5256 | 5261 | 5267 | 5272 | 5278 | 5283 | 5288 | 5294 | 5299 | 5305 | 9 4.5 |
| 41 | 5310 | 5315 | 5321 | 5326 | 5332 | 5337 | 5342 | 5348 | 5353 | 5359 | |
| 42 | 5364 | 5369 | 5375 | 5380 | 5386 | 5391 | 5396 | 5402 | 5407 | 5413 | |
| 43 | 5418 | 5423 | 5429 | 5434 | 5440 | 5445 | 5450 | 5456 | 5461 | 5467 | |
| 44 | 5472 | 5477 | 5483 | 5488 | 5494 | 5499 | 5504 | 5510 | 5515 | 5521 | |
| 45 | 90 5526 | 5531 | 5537 | 5542 | 5548 | 5553 | 5558 | 5564 | 5569 | 5575 | |
| 46 | 5580 | 5585 | 5591 | 5596 | 5602 | 5607 | 5612 | 5618 | 5623 | 5629 | |
| 47 | 5634 | 5639 | 5645 | 5650 | 5656 | 5661 | 5666 | 5672 | 5677 | 5683 | |
| 48 | 5688 | 5693 | 5699 | 5704 | 5710 | 5715 | 5720 | 5726 | 5731 | 5737 | |
| 49 | 5742 | 5747 | 5753 | 5758 | 5764 | 5769 | 5774 | 5780 | 5785 | 5790 | |
| 8050 | 90 5796 | 5801 | 5807 | 5812 | 5817 | 5823 | 5828 | 5834 | 5839 | 5844 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 80000" = 22° 13' 20" | | | | 80000" = 2° 13' 20" | | S. 4,685 | 466 | T. 793 | | |
| | 80100 = 22 15 0 | | | | 80100 = 2 13 30 | | | 466 | 793 | | |
| | 80200 = 22 16 40 | | | | 80200 = 2 13 40 | | | 465 | 794 | | |
| | 80300 = 22 18 20 | | | | 80300 = 2 13 50 | | | 465 | 794 | | |
| | 80400 = 22 20 0 | | | | 80400 = 2 14 0 | | | 465 | 795 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|---------------------|------|------|----------|------|--------|-------|
| 8050 | 90 5796 | 5801 | 5807 | 5812 | 5817 | 5823 | 5828 | 5834 | 5839 | 5844 | |
| 51 | 5850 | 5855 | 5861 | 5866 | 5871 | 5877 | 5882 | 5888 | 5893 | 5898 | |
| 52 | 5904 | 5909 | 5915 | 5920 | 5925 | 5931 | 5936 | 5942 | 5947 | 5952 | |
| 53 | 5958 | 5963 | 5968 | 5974 | 5979 | 5985 | 5990 | 5995 | 6001 | 6006 | |
| 54 | 6012 | 6017 | 6022 | 6028 | 6033 | 6039 | 6044 | 6049 | 6055 | 6060 | |
| 55 | 90 6066 | 6071 | 6076 | 6082 | 6087 | 6093 | 6098 | 6103 | 6109 | 6114 | |
| 56 | 6119 | 6125 | 6130 | 6136 | 6141 | 6146 | 6152 | 6157 | 6163 | 6168 | |
| 57 | 6173 | 6179 | 6184 | 6190 | 6195 | 6200 | 6206 | 6211 | 6216 | 6222 | |
| 58 | 6227 | 6233 | 6238 | 6243 | 6249 | 6254 | 6260 | 6265 | 6270 | 6276 | |
| 59 | 6281 | 6287 | 6292 | 6297 | 6303 | 6308 | 6313 | 6319 | 6324 | 6330 | |
| 8060 | 90 6335 | 6340 | 6346 | 6351 | 6357 | 6362 | 6367 | 6373 | 6378 | 6384 | |
| 61 | 6389 | 6394 | 6400 | 6405 | 6410 | 6416 | 6421 | 6427 | 6432 | 6437 | 6 |
| 62 | 6443 | 6448 | 6454 | 6459 | 6464 | 6470 | 6475 | 6481 | 6486 | 6491 | 1 0.6 |
| 63 | 6497 | 6502 | 6507 | 6513 | 6518 | 6524 | 6529 | 6534 | 6540 | 6545 | 2 1.2 |
| 64 | 6551 | 6556 | 6561 | 6567 | 6572 | 6577 | 6583 | 6588 | 6594 | 6599 | 3 1.8 |
| 65 | 90 6604 | 6610 | 6615 | 6621 | 6626 | 6631 | 6637 | 6642 | 6647 | 6653 | 4 2.4 |
| 66 | 6658 | 6664 | 6669 | 6674 | 6680 | 6685 | 6691 | 6696 | 6701 | 6707 | 5 3.0 |
| 67 | 6712 | 6717 | 6723 | 6728 | 6734 | 6739 | 6744 | 6750 | 6755 | 6761 | 6 3.6 |
| 68 | 6766 | 6771 | 6777 | 6782 | 6787 | 6793 | 6798 | 6804 | 6809 | 6814 | 7 4.2 |
| 69 | 6820 | 6825 | 6830 | 6836 | 6841 | 6847 | 6852 | 6857 | 6863 | 6868 | 8 4.8 |
| 8070 | 90 6871 | 6876 | 6881 | 6886 | 6891 | 6896 | 6901 | 6906 | 6911 | 6916 | 9 5.4 |
| 71 | 6927 | 6933 | 6938 | 6943 | 6949 | 6954 | 6960 | 6965 | 6970 | 6976 | |
| 72 | 6981 | 6987 | 6992 | 6997 | 7003 | 7008 | 7013 | 7019 | 7024 | 7030 | |
| 73 | 7035 | 7040 | 7046 | 7051 | 7056 | 7062 | 7067 | 7073 | 7078 | 7083 | |
| 74 | 7089 | 7094 | 7100 | 7105 | 7110 | 7116 | 7121 | 7126 | 7132 | 7137 | |
| 75 | 90 7143 | 7148 | 7153 | 7159 | 7164 | 7169 | 7175 | 7180 | 7186 | 7191 | |
| 76 | 7196 | 7202 | 7207 | 7212 | 7218 | 7223 | 7229 | 7234 | 7239 | 7245 | |
| 77 | 7250 | 7255 | 7261 | 7266 | 7272 | 7277 | 7282 | 7288 | 7293 | 7298 | |
| 78 | 7304 | 7309 | 7315 | 7320 | 7325 | 7331 | 7336 | 7341 | 7347 | 7352 | |
| 79 | 7358 | 7363 | 7368 | 7374 | 7379 | 7384 | 7390 | 7395 | 7401 | 7406 | |
| 8080 | 90 7411 | 7417 | 7422 | 7427 | 7433 | 7438 | 7444 | 7449 | 7454 | 7460 | |
| 81 | 7465 | 7470 | 7476 | 7481 | 7487 | 7492 | 7497 | 7503 | 7508 | 7513 | 5 |
| 82 | 7519 | 7524 | 7530 | 7535 | 7540 | 7546 | 7551 | 7556 | 7562 | 7567 | 1 0.5 |
| 83 | 7579 | 7584 | 7589 | 7594 | 7599 | 7605 | 7610 | 7616 | 7621 | 7626 | 2 1.0 |
| 84 | 7626 | 7632 | 7637 | 7642 | 7648 | 7653 | 7659 | 7664 | 7669 | 7675 | 3 1.5 |
| 85 | 90 7680 | 7685 | 7691 | 7696 | 7702 | 7707 | 7712 | 7718 | 7723 | 7728 | 4 2.0 |
| 86 | 7734 | 7739 | 7744 | 7750 | 7755 | 7761 | 7766 | 7771 | 7777 | 7782 | 5 2.5 |
| 87 | 7787 | 7792 | 7797 | 7804 | 7809 | 7814 | 7820 | 7825 | 7830 | 7836 | 6 3.0 |
| 88 | 7841 | 7846 | 7851 | 7857 | 7863 | 7868 | 7873 | 7879 | 7884 | 7889 | 7 3.5 |
| 89 | 7895 | 7900 | 7905 | 7911 | 7916 | 7922 | 7927 | 7932 | 7938 | 7943 | 8 4.0 |
| 8090 | 90 7949 | 7954 | 7959 | 7965 | 7970 | 7975 | 7981 | 7986 | 7991 | 7997 | 9 4.5 |
| 91 | 8002 | 8008 | 8013 | 8018 | 8024 | 8029 | 8034 | 8040 | 8045 | 8051 | |
| 92 | 8056 | 8061 | 8067 | 8072 | 8077 | 8083 | 8088 | 8093 | 8099 | 8104 | |
| 93 | 8110 | 8115 | 8120 | 8126 | 8131 | 8136 | 8142 | 8147 | 8152 | 8158 | |
| 94 | 8163 | 8169 | 8174 | 8179 | 8185 | 8190 | 8195 | 8201 | 8206 | 8211 | |
| 95 | 90 8217 | 8222 | 8228 | 8233 | 8238 | 8244 | 8249 | 8254 | 8260 | 8265 | |
| 96 | 8270 | 8276 | 8281 | 8287 | 8292 | 8297 | 8303 | 8308 | 8313 | 8319 | |
| 97 | 8324 | 8330 | 8335 | 8340 | 8346 | 8351 | 8356 | 8362 | 8367 | 8372 | |
| 98 | 8378 | 8383 | 8388 | 8394 | 8399 | 8405 | 8410 | 8415 | 8421 | 8426 | |
| 99 | 8431 | 8437 | 8442 | 8447 | 8453 | 8458 | 8464 | 8469 | 8474 | 8480 | |
| 8100 | 90 8485 | 8490 | 8496 | 8501 | 8506 | 8512 | 8517 | 8523 | 8528 | 8533 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 80500" | 22° 21' 40" | | | | 80500" = 2° 14' 10" | | | S. 4.685 | 465 | T. 795 | |
| 80600 | 22 23 20 | | | | 80600 = 2 14 20 | | | | 464 | 796 | |
| 80700 | 22 25 0 | | | | 80700 = 2 14 30 | | | | 464 | 797 | |
| 80800 | 22 26 40 | | | | 80800 = 2 14 40 | | | | 464 | 797 | |
| 80900 | 22 28 20 | | | | 80900 = 2 14 50 | | | | 464 | 798 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|-------------------|------|------|---------------------|------|------|------|-------|
| 8100 | 90 8485 | 8490 | 8496 | 8501 | 8506 | 8512 | 8517 | 8523 | 8528 | 8533 | |
| 01 | 8539 | 8544 | 8549 | 8555 | 8560 | 8565 | 8571 | 8576 | 8582 | 8587 | |
| 02 | 8592 | 8598 | 8603 | 8608 | 8614 | 8619 | 8624 | 8630 | 8635 | 8640 | |
| 03 | 8646 | 8651 | 8657 | 8662 | 8667 | 8673 | 8678 | 8683 | 8689 | 8694 | |
| 04 | 8699 | 8705 | 8710 | 8716 | 8721 | 8726 | 8732 | 8737 | 8742 | 8748 | |
| 05 | 90 8753 | 8758 | 8764 | 8769 | 8774 | 8780 | 8785 | 8791 | 8796 | 8801 | |
| 06 | 8807 | 8812 | 8817 | 8823 | 8828 | 8833 | 8839 | 8844 | 8849 | 8855 | |
| 07 | 8860 | 8866 | 8871 | 8876 | 8882 | 8887 | 8892 | 8898 | 8903 | 8908 | |
| 08 | 8914 | 8919 | 8924 | 8930 | 8935 | 8941 | 8946 | 8951 | 8957 | 8962 | |
| 09 | 8967 | 8973 | 8978 | 8983 | 8989 | 8994 | 8999 | 9005 | 9010 | 9015 | |
| 8110 | 90 9021 | 9026 | 9032 | 9037 | 9042 | 9048 | 9053 | 9058 | 9064 | 9069 | |
| 11 | 9074 | 9080 | 9085 | 9090 | 9096 | 9101 | 9107 | 9112 | 9117 | 9123 | 6 |
| 12 | 9128 | 9133 | 9139 | 9144 | 9149 | 9155 | 9160 | 9165 | 9171 | 9176 | 1 0.6 |
| 13 | 9181 | 9187 | 9192 | 9198 | 9203 | 9208 | 9214 | 9219 | 9224 | 9230 | 2 1.2 |
| 14 | 9235 | 9240 | 9246 | 9251 | 9256 | 9262 | 9267 | 9272 | 9278 | 9283 | 3 1.8 |
| 15 | 90 9289 | 9294 | 9299 | 9305 | 9310 | 9315 | 9321 | 9326 | 9331 | 9337 | 4 2.4 |
| 16 | 9342 | 9347 | 9353 | 9358 | 9363 | 9369 | 9374 | 9379 | 9385 | 9390 | 5 3.0 |
| 17 | 9396 | 9401 | 9406 | 9412 | 9417 | 9422 | 9428 | 9433 | 9438 | 9444 | 6 3.6 |
| 18 | 9449 | 9454 | 9460 | 9465 | 9470 | 9476 | 9481 | 9486 | 9492 | 9497 | 7 4.2 |
| 19 | 9503 | 9508 | 9513 | 9519 | 9524 | 9529 | 9535 | 9540 | 9545 | 9551 | 8 4.8 |
| 8120 | 90 9556 | 9561 | 9567 | 9572 | 9577 | 9583 | 9588 | 9593 | 9599 | 9604 | 9 5.4 |
| 21 | 9610 | 9615 | 9620 | 9626 | 9631 | 9636 | 9642 | 9647 | 9652 | 9658 | |
| 22 | 9663 | 9668 | 9674 | 9679 | 9684 | 9690 | 9695 | 9700 | 9706 | 9711 | |
| 23 | 9716 | 9722 | 9727 | 9732 | 9738 | 9743 | 9749 | 9754 | 9759 | 9765 | |
| 24 | 9770 | 9775 | 9781 | 9786 | 9791 | 9797 | 9802 | 9807 | 9813 | 9818 | |
| 25 | 90 9823 | 9829 | 9834 | 9839 | 9845 | 9850 | 9855 | 9861 | 9866 | 9871 | |
| 26 | 9877 | 9882 | 9888 | 9893 | 9898 | 9904 | 9909 | 9914 | 9920 | 9925 | |
| 27 | 9930 | 9936 | 9941 | 9946 | 9952 | 9957 | 9962 | 9968 | 9973 | 9978 | |
| 28 | 9984 | 9989 | 9994 | 0000 | 0005 | 0010 | 0016 | 0021 | 0026 | 0032 | |
| 29 | 91 0037 | 0042 | 0048 | 0053 | 0058 | 0064 | 0069 | 0075 | 0080 | 0085 | |
| 8130 | 91 0091 | 0096 | 0101 | 0107 | 0112 | 0117 | 0123 | 0128 | 0133 | 0139 | |
| 31 | 0144 | 0149 | 0155 | 0160 | 0165 | 0171 | 0176 | 0181 | 0187 | 0192 | 5 |
| 32 | 0197 | 0203 | 0208 | 0213 | 0219 | 0224 | 0229 | 0235 | 0240 | 0245 | 1 0.5 |
| 33 | 0251 | 0256 | 0261 | 0267 | 0272 | 0277 | 0283 | 0288 | 0293 | 0299 | 2 1.0 |
| 34 | 0304 | 0310 | 0315 | 0320 | 0326 | 0331 | 0336 | 0342 | 0347 | 0352 | 3 1.5 |
| 35 | 91 0358 | 0363 | 0368 | 0374 | 0379 | 0384 | 0390 | 0395 | 0400 | 0406 | 4 2.0 |
| 36 | 0411 | 0416 | 0422 | 0427 | 0432 | 0438 | 0443 | 0448 | 0454 | 0459 | 5 2.5 |
| 37 | 0464 | 0470 | 0475 | 0480 | 0486 | 0491 | 0496 | 0502 | 0507 | 0512 | 6 3.0 |
| 38 | 0518 | 0523 | 0528 | 0534 | 0539 | 0544 | 0550 | 0555 | 0560 | 0566 | 7 3.5 |
| 39 | 0571 | 0576 | 0582 | 0587 | 0592 | 0598 | 0603 | 0608 | 0614 | 0619 | 8 4.0 |
| 8140 | 0624 | 0629 | 0635 | 0640 | 0646 | 0651 | 0656 | 0662 | 0667 | 0672 | 9 4.5 |
| 41 | 0677 | 0683 | 0688 | 0693 | 0699 | 0704 | 0709 | 0715 | 0720 | 0725 | |
| 42 | 0731 | 0736 | 0742 | 0747 | 0752 | 0758 | 0763 | 0768 | 0774 | 0779 | |
| 43 | 0784 | 0790 | 0795 | 0800 | 0806 | 0811 | 0816 | 0822 | 0827 | 0832 | |
| 44 | 0838 | 0843 | 0848 | 0854 | 0859 | 0864 | 0870 | 0875 | 0880 | 0886 | |
| 45 | 91 0891 | 0896 | 0902 | 0907 | 0912 | 0918 | 0923 | 0928 | 0934 | 0939 | |
| 46 | 0944 | 0950 | 0955 | 0960 | 0966 | 0971 | 0976 | 0982 | 0987 | 0992 | |
| 47 | 0998 | 1003 | 1008 | 1014 | 1019 | 1024 | 1030 | 1035 | 1040 | 1046 | |
| 48 | 1051 | 1056 | 1062 | 1067 | 1072 | 1078 | 1083 | 1088 | 1094 | 1099 | |
| 49 | 1104 | 1110 | 1115 | 1120 | 1126 | 1131 | 1136 | 1142 | 1147 | 1152 | |
| 8150 | 91 1158 | 1163 | 1168 | 1174 | 1179 | 1184 | 1190 | 1195 | 1200 | 1206 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 8100" | = 22° 30' 0" | | | 8100" = 2° 15' 0" | | | S. 4,685 463 T. 798 | | | | |
| 81100 | = 22 31 40 | | | 8110 = 2 15 10 | | | 463 799 | | | | |
| 81200 | = 22 33 20 | | | 8120 = 2 15 20 | | | 463 799 | | | | |
| 81300 | = 22 35 0 | | | 8130 = 2 15 30 | | | 462 800 | | | | |
| 81400 | = 22 36 40 | | | 8140 = 2 15 40 | | | 462 800 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|------|------|----------|------------|
| 8150 | 91 1158 | 1163 | 1168 | 1174 | 1179 | 1184 | 1190 | 1195 | 1200 | 1206 | |
| 51 | 1211 | 1216 | 1222 | 1227 | 1232 | 1238 | 1243 | 1248 | 1254 | 1259 | |
| 52 | 1264 | 1269 | 1275 | 1280 | 1285 | 1291 | 1296 | 1301 | 1307 | 1312 | |
| 53 | 1317 | 1323 | 1328 | 1333 | 1339 | 1344 | 1349 | 1355 | 1360 | 1365 | |
| 54 | 1371 | 1376 | 1381 | 1387 | 1392 | 1397 | 1403 | 1408 | 1413 | 1419 | |
| 55 | 91 1424 | 1429 | 1435 | 1440 | 1445 | 1451 | 1456 | 1461 | 1467 | 1472 | |
| 56 | 1477 | 1483 | 1488 | 1493 | 1499 | 1504 | 1509 | 1514 | 1520 | 1525 | |
| 57 | 1530 | 1536 | 1541 | 1546 | 1552 | 1557 | 1562 | 1568 | 1573 | 1578 | |
| 58 | 1584 | 1589 | 1594 | 1600 | 1605 | 1610 | 1616 | 1621 | 1626 | 1632 | |
| 59 | 1637 | 1642 | 1648 | 1653 | 1658 | 1664 | 1669 | 1674 | 1680 | 1685 | |
| 8160 | 91 1690 | 1695 | 1701 | 1706 | 1711 | 1717 | 1722 | 1727 | 1733 | 1738 | |
| 61 | 1743 | 1749 | 1754 | 1759 | 1765 | 1770 | 1775 | 1781 | 1786 | 1791 | 6 |
| 62 | 1797 | 1802 | 1807 | 1813 | 1818 | 1823 | 1829 | 1834 | 1839 | 1844 | 1 |
| 63 | 1850 | 1855 | 1860 | 1866 | 1871 | 1876 | 1882 | 1887 | 1892 | 1898 | 2 |
| 64 | 1903 | 1908 | 1914 | 1919 | 1924 | 1930 | 1935 | 1940 | 1946 | 1951 | 3 |
| 65 | 91 1956 | 1962 | 1967 | 1972 | 1977 | 1983 | 1988 | 1993 | 1999 | 2004 | 4 |
| 66 | 2009 | 2015 | 2020 | 2025 | 2031 | 2036 | 2041 | 2047 | 2052 | 2057 | 5 |
| 67 | 2063 | 2068 | 2073 | 2079 | 2084 | 2089 | 2094 | 2100 | 2105 | 2110 | 6 |
| 68 | 2116 | 2121 | 2126 | 2132 | 2137 | 2142 | 2148 | 2153 | 2158 | 2164 | 7 |
| 69 | 2169 | 2174 | 2180 | 2185 | 2190 | 2195 | 2201 | 2206 | 2211 | 2217 | 8 |
| 8170 | 91 2222 | 2227 | 2233 | 2238 | 2243 | 2249 | 2254 | 2259 | 2265 | 2270 | 9 |
| 71 | 2275 | 2281 | 2286 | 2291 | 2296 | 2302 | 2307 | 2312 | 2318 | 2323 | 5.4 |
| 72 | 2328 | 2334 | 2339 | 2344 | 2350 | 2355 | 2360 | 2366 | 2371 | 2376 | |
| 73 | 2381 | 2387 | 2392 | 2397 | 2403 | 2408 | 2413 | 2419 | 2424 | 2429 | |
| 74 | 2435 | 2440 | 2445 | 2451 | 2456 | 2461 | 2467 | 2472 | 2477 | 2482 | |
| 75 | 91 2488 | 2493 | 2498 | 2504 | 2509 | 2514 | 2520 | 2525 | 2530 | 2536 | |
| 76 | 2541 | 2546 | 2552 | 2557 | 2562 | 2567 | 2573 | 2578 | 2583 | 2589 | |
| 77 | 2594 | 2599 | 2605 | 2610 | 2615 | 2621 | 2626 | 2631 | 2636 | 2642 | |
| 78 | 2647 | 2652 | 2658 | 2663 | 2668 | 2674 | 2679 | 2684 | 2690 | 2695 | |
| 79 | 2700 | 2706 | 2711 | 2716 | 2721 | 2727 | 2732 | 2737 | 2743 | 2748 | |
| 8180 | 91 2753 | 2759 | 2764 | 2769 | 2775 | 2780 | 2785 | 2790 | 2796 | 2801 | |
| 81 | 2806 | 2812 | 2817 | 2822 | 2828 | 2833 | 2838 | 2844 | 2849 | 2854 | 5 |
| 82 | 2859 | 2865 | 2870 | 2875 | 2881 | 2886 | 2891 | 2897 | 2902 | 2907 | 1 |
| 83 | 2913 | 2918 | 2923 | 2928 | 2934 | 2939 | 2944 | 2950 | 2955 | 2960 | 2 |
| 84 | 2966 | 2971 | 2976 | 2982 | 2987 | 2992 | 2997 | 3003 | 3008 | 3013 | 3 |
| 85 | 91 3019 | 3024 | 3029 | 3035 | 3040 | 3045 | 3051 | 3056 | 3061 | 3066 | 4 |
| 86 | 3072 | 3077 | 3082 | 3088 | 3093 | 3098 | 3104 | 3109 | 3114 | 3119 | 5 |
| 87 | 3125 | 3130 | 3135 | 3141 | 3146 | 3152 | 3157 | 3162 | 3167 | 3173 | 6 |
| 88 | 3178 | 3183 | 3188 | 3194 | 3199 | 3204 | 3210 | 3215 | 3220 | 3226 | 7 |
| 89 | 3231 | 3236 | 3241 | 3247 | 3252 | 3257 | 3263 | 3268 | 3273 | 3279 | 8 |
| 8190 | 91 3284 | 3289 | 3295 | 3300 | 3305 | 3310 | 3316 | 3321 | 3326 | 3332 | 9 |
| 91 | 3337 | 3342 | 3348 | 3353 | 3358 | 3363 | 3369 | 3374 | 3379 | 3385 | |
| 92 | 3390 | 3395 | 3401 | 3406 | 3411 | 3416 | 3422 | 3427 | 3432 | 3438 | |
| 93 | 3443 | 3448 | 3454 | 3459 | 3464 | 3469 | 3475 | 3480 | 3485 | 3491 | |
| 94 | 3496 | 3501 | 3507 | 3512 | 3517 | 3522 | 3528 | 3533 | 3538 | 3544 | |
| 95 | 91 3549 | 3554 | 3560 | 3565 | 3570 | 3575 | 3581 | 3586 | 3591 | 3597 | |
| 96 | 3602 | 3607 | 3613 | 3618 | 3623 | 3628 | 3634 | 3639 | 3644 | 3650 | |
| 97 | 3655 | 3660 | 3666 | 3671 | 3676 | 3681 | 3687 | 3692 | 3697 | 3703 | |
| 98 | 3708 | 3713 | 3719 | 3724 | 3729 | 3734 | 3740 | 3745 | 3750 | 3756 | |
| 99 | 3761 | 3766 | 3771 | 3777 | 3782 | 3787 | 3793 | 3798 | 3803 | 3809 | |
| 8200 | 91 3814 | 3819 | 3824 | 3830 | 3835 | 3840 | 3846 | 3851 | 3856 | 3862 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 81500 | = 22° 38' 20" | | | | 81500 | = 2° 15' 50" | | | | S. 4,685 | 462 T. 801 |
| 81600 | = 22 40 0 | | | | 81600 | = 2 16 0 | | | | 462 | 802 |
| 81700 | = 22 41 40 | | | | 81700 | = 2 16 10 | | | | 461 | 802 |
| 81800 | = 22 43 20 | | | | 81800 | = 2 16 20 | | | | 461 | 803 |
| 81900 | = 22 45 0 | | | | 81900 | = 2 16 30 | | | | 461 | 803 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|--------------------|------|------|--------------|------|------|--------|-------|
| 8200 | 91 3814 | 3819 | 3824 | 3830 | 3835 | 3840 | 3846 | 3851 | 3856 | 3862 | |
| 01 | 3867 | 3872 | 3877 | 3883 | 3888 | 3893 | 3899 | 3904 | 3909 | 3914 | |
| 02 | 3920 | 3925 | 3930 | 3936 | 3941 | 3946 | 3952 | 3957 | 3962 | 3967 | |
| 03 | 3973 | 3978 | 3983 | 3989 | 3994 | 3999 | 4004 | 4010 | 4015 | 4020 | |
| 04 | 4026 | 4031 | 4036 | 4042 | 4047 | 4052 | 4057 | 4063 | 4068 | 4073 | |
| 05 | 91 4079 | 4084 | 4089 | 4094 | 4100 | 4105 | 4110 | 4116 | 4121 | 4126 | |
| 06 | 4132 | 4137 | 4142 | 4147 | 4153 | 4158 | 4163 | 4169 | 4174 | 4179 | |
| 07 | 4184 | 4190 | 4195 | 4200 | 4206 | 4211 | 4216 | 4221 | 4227 | 4232 | |
| 08 | 4237 | 4243 | 4248 | 4253 | 4259 | 4264 | 4269 | 4274 | 4280 | 4285 | |
| 09 | 4290 | 4296 | 4301 | 4306 | 4311 | 4317 | 4322 | 4327 | 4333 | 4338 | |
| 8210 | 91 4343 | 4348 | 4354 | 4359 | 4364 | 4370 | 4375 | 4380 | 4385 | 4391 | |
| 11 | 4396 | 4401 | 4407 | 4412 | 4417 | 4422 | 4428 | 4433 | 4438 | 4444 | 6 |
| 12 | 4449 | 4454 | 4460 | 4465 | 4470 | 4475 | 4481 | 4486 | 4491 | 4497 | 1 0.6 |
| 13 | 4502 | 4507 | 4512 | 4518 | 4523 | 4528 | 4534 | 4539 | 4544 | 4549 | 2 1.2 |
| 14 | 4555 | 4560 | 4565 | 4571 | 4576 | 4581 | 4586 | 4592 | 4597 | 4602 | 3 1.8 |
| 15 | 91 4608 | 4613 | 4618 | 4623 | 4629 | 4634 | 4639 | 4645 | 4650 | 4655 | 4 2.4 |
| 16 | 4660 | 4666 | 4671 | 4676 | 4682 | 4687 | 4692 | 4697 | 4703 | 4708 | 5 3.0 |
| 17 | 4713 | 4719 | 4724 | 4729 | 4734 | 4740 | 4745 | 4750 | 4756 | 4761 | 6 3.6 |
| 18 | 4766 | 4771 | 4777 | 4782 | 4787 | 4793 | 4798 | 4803 | 4808 | 4814 | 7 4.2 |
| 19 | 4819 | 4824 | 4830 | 4835 | 4840 | 4845 | 4851 | 4856 | 4861 | 4867 | 8 4.8 |
| 8220 | 91 4872 | 4877 | 4882 | 4887 | 4892 | 4897 | 4902 | 4907 | 4912 | 4917 | 9 5.4 |
| 21 | 4925 | 4930 | 4935 | 4940 | 4945 | 4950 | 4955 | 4960 | 4965 | 4970 | |
| 22 | 4977 | 4983 | 4988 | 4993 | 4999 | 5004 | 5009 | 5014 | 5020 | 5025 | |
| 23 | 5030 | 5036 | 5041 | 5046 | 5051 | 5057 | 5062 | 5067 | 5073 | 5078 | |
| 24 | 5083 | 5088 | 5094 | 5099 | 5104 | 5110 | 5115 | 5120 | 5125 | 5131 | |
| 25 | 91 5136 | 5141 | 5146 | 5152 | 5157 | 5162 | 5168 | 5173 | 5178 | 5183 | |
| 26 | 5189 | 5194 | 5199 | 5205 | 5210 | 5215 | 5220 | 5226 | 5231 | 5236 | |
| 27 | 5241 | 5247 | 5252 | 5257 | 5263 | 5268 | 5273 | 5278 | 5284 | 5289 | |
| 28 | 5294 | 5300 | 5305 | 5310 | 5315 | 5321 | 5326 | 5331 | 5337 | 5342 | |
| 29 | 5347 | 5352 | 5358 | 5363 | 5368 | 5373 | 5379 | 5384 | 5389 | 5395 | |
| 8230 | 91 5400 | 5405 | 5410 | 5416 | 5421 | 5426 | 5431 | 5437 | 5442 | 5447 | |
| 31 | 5453 | 5458 | 5463 | 5468 | 5474 | 5479 | 5484 | 5490 | 5495 | 5500 | 5 |
| 32 | 5505 | 5511 | 5516 | 5521 | 5526 | 5532 | 5537 | 5542 | 5548 | 5553 | 1 0.5 |
| 33 | 5558 | 5563 | 5569 | 5574 | 5579 | 5584 | 5590 | 5595 | 5600 | 5606 | 2 1.0 |
| 34 | 5611 | 5616 | 5621 | 5627 | 5632 | 5637 | 5643 | 5648 | 5653 | 5658 | 3 1.5 |
| 35 | 91 5664 | 5669 | 5674 | 5679 | 5685 | 5690 | 5695 | 5701 | 5706 | 5711 | 4 2.0 |
| 36 | 5716 | 5722 | 5727 | 5732 | 5737 | 5743 | 5748 | 5753 | 5759 | 5764 | 5 2.5 |
| 37 | 5769 | 5774 | 5780 | 5785 | 5790 | 5795 | 5801 | 5806 | 5811 | 5817 | 6 3.0 |
| 38 | 5822 | 5827 | 5832 | 5838 | 5843 | 5848 | 5853 | 5859 | 5864 | 5869 | 7 3.5 |
| 39 | 5875 | 5880 | 5885 | 5890 | 5896 | 5901 | 5906 | 5911 | 5917 | 5922 | 8 4.0 |
| 8240 | 91 5927 | 5932 | 5938 | 5943 | 5948 | 5954 | 5959 | 5964 | 5969 | 5975 | 9 4.5 |
| 41 | 5980 | 5985 | 5990 | 5996 | 6001 | 6006 | 6012 | 6017 | 6022 | 6027 | |
| 42 | 6033 | 6038 | 6043 | 6048 | 6054 | 6059 | 6064 | 6069 | 6075 | 6080 | |
| 43 | 6085 | 6091 | 6096 | 6101 | 6106 | 6112 | 6117 | 6122 | 6127 | 6133 | |
| 44 | 6138 | 6143 | 6149 | 6154 | 6159 | 6164 | 6170 | 6175 | 6180 | 6185 | |
| 45 | 91 6191 | 6196 | 6201 | 6206 | 6212 | 6217 | 6222 | 6228 | 6233 | 6238 | |
| 46 | 6243 | 6249 | 6254 | 6259 | 6264 | 6270 | 6275 | 6280 | 6285 | 6291 | |
| 47 | 6296 | 6301 | 6307 | 6312 | 6317 | 6322 | 6328 | 6333 | 6338 | 6343 | |
| 48 | 6349 | 6354 | 6359 | 6364 | 6370 | 6375 | 6380 | 6386 | 6391 | 6396 | |
| 49 | 6401 | 6407 | 6412 | 6417 | 6422 | 6428 | 6433 | 6438 | 6443 | 6449 | |
| 8250 | 91 6454 | 6459 | 6464 | 6470 | 6475 | 6480 | 6486 | 6491 | 6496 | 6501 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 82000 | = 2° 46' 40" | | | 8200' = 2° 16' 40" | | | S. 4,685 460 | | | T. 804 | |
| 82100 | = 22 48 20 | | | 8210 = 2 16 50 | | | 460 | | | 804 | |
| 82200 | = 22 50 0 | | | 8220 = 2 17 0 | | | 460 | | | 805 | |
| 82300 | = 22 51 40 | | | 8230 = 2 17 10 | | | 460 | | | 805 | |
| 82400 | = 22 53 20 | | | 8240 = 2 17 20 | | | 459 | | | 806 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|--------------------|------|------|----------|------|--------|-------|
| 8250 | 91 6454 | 6459 | 6464 | 6470 | 6475 | 6480 | 6486 | 6491 | 6496 | 6501 | |
| 51 | 6507 | 6512 | 6517 | 6522 | 6528 | 6533 | 6538 | 6543 | 6549 | 6554 | |
| 52 | 6559 | 6564 | 6570 | 6575 | 6580 | 6586 | 6591 | 6596 | 6601 | 6607 | |
| 53 | 6612 | 6617 | 6622 | 6628 | 6633 | 6638 | 6643 | 6649 | 6654 | 6659 | |
| 54 | 6664 | 6670 | 6675 | 6680 | 6686 | 6691 | 6696 | 6701 | 6707 | 6712 | |
| 55 | 91 6717 | 6722 | 6728 | 6733 | 6738 | 6743 | 6749 | 6754 | 6759 | 6764 | |
| 56 | 6770 | 6775 | 6780 | 6785 | 6791 | 6796 | 6801 | 6807 | 6812 | 6817 | |
| 57 | 6822 | 6828 | 6833 | 6838 | 6843 | 6849 | 6854 | 6859 | 6864 | 6870 | |
| 58 | 6875 | 6880 | 6885 | 6891 | 6896 | 6901 | 6906 | 6912 | 6917 | 6922 | |
| 59 | 6927 | 6933 | 6938 | 6943 | 6948 | 6954 | 6959 | 6964 | 6970 | 6975 | |
| 8260 | 91 6980 | 6985 | 6991 | 6996 | 7001 | 7006 | 7012 | 7017 | 7022 | 7027 | |
| 61 | 7033 | 7038 | 7043 | 7048 | 7054 | 7059 | 7064 | 7069 | 7075 | 7080 | 6 |
| 62 | 7085 | 7090 | 7096 | 7101 | 7106 | 7111 | 7117 | 7122 | 7127 | 7132 | 1 0.6 |
| 63 | 7138 | 7143 | 7148 | 7154 | 7159 | 7164 | 7169 | 7175 | 7180 | 7185 | 2 1.2 |
| 64 | 7190 | 7196 | 7201 | 7206 | 7211 | 7217 | 7222 | 7227 | 7232 | 7238 | 3 1.8 |
| 65 | 91 7243 | 7248 | 7253 | 7259 | 7264 | 7269 | 7274 | 7280 | 7285 | 7290 | 4 2.4 |
| 66 | 7295 | 7301 | 7306 | 7311 | 7316 | 7322 | 7327 | 7332 | 7337 | 7343 | 5 3.0 |
| 67 | 7348 | 7353 | 7358 | 7364 | 7369 | 7374 | 7379 | 7385 | 7390 | 7395 | 6 3.6 |
| 68 | 7400 | 7406 | 7411 | 7416 | 7421 | 7427 | 7432 | 7437 | 7442 | 7448 | 7 4.2 |
| 69 | 7453 | 7458 | 7463 | 7469 | 7474 | 7479 | 7485 | 7490 | 7495 | 7500 | 8 4.8 |
| 8270 | 91 7506 | 7511 | 7516 | 7521 | 7527 | 7532 | 7537 | 7542 | 7548 | 7553 | 9 5.4 |
| 71 | 7558 | 7563 | 7569 | 7574 | 7579 | 7584 | 7590 | 7595 | 7600 | 7605 | |
| 72 | 7611 | 7616 | 7621 | 7626 | 7632 | 7637 | 7642 | 7647 | 7653 | 7658 | |
| 73 | 7663 | 7668 | 7674 | 7679 | 7684 | 7689 | 7695 | 7700 | 7705 | 7710 | |
| 74 | 7716 | 7721 | 7726 | 7731 | 7737 | 7742 | 7747 | 7752 | 7758 | 7763 | |
| 75 | 91 7768 | 7773 | 7778 | 7784 | 7789 | 7794 | 7799 | 7805 | 7810 | 7815 | |
| 76 | 7820 | 7826 | 7831 | 7836 | 7841 | 7847 | 7852 | 7857 | 7862 | 7868 | |
| 77 | 7873 | 7878 | 7883 | 7889 | 7894 | 7899 | 7904 | 7910 | 7915 | 7920 | |
| 78 | 7925 | 7931 | 7936 | 7941 | 7946 | 7952 | 7957 | 7962 | 7967 | 7973 | |
| 79 | 7978 | 7983 | 7988 | 7994 | 7999 | 8004 | 8009 | 8015 | 8020 | 8025 | |
| 8280 | 91 8030 | 8036 | 8041 | 8046 | 8051 | 8057 | 8062 | 8067 | 8072 | 8078 | |
| 81 | 8083 | 8088 | 8093 | 8099 | 8104 | 8109 | 8114 | 8119 | 8125 | 8130 | 5 |
| 82 | 8135 | 8140 | 8146 | 8151 | 8156 | 8161 | 8167 | 8172 | 8177 | 8182 | 1 0.5 |
| 83 | 8188 | 8193 | 8198 | 8203 | 8209 | 8214 | 8219 | 8224 | 8230 | 8235 | 2 1.0 |
| 84 | 8240 | 8245 | 8251 | 8256 | 8261 | 8266 | 8272 | 8277 | 8282 | 8287 | 3 1.5 |
| 85 | 91 8293 | 8298 | 8303 | 8308 | 8313 | 8319 | 8324 | 8329 | 8334 | 8340 | 4 2.0 |
| 86 | 8345 | 8350 | 8355 | 8361 | 8366 | 8371 | 8376 | 8382 | 8387 | 8392 | 5 2.5 |
| 87 | 8397 | 8403 | 8408 | 8413 | 8418 | 8424 | 8429 | 8434 | 8439 | 8445 | 6 3.0 |
| 88 | 8450 | 8455 | 8460 | 8465 | 8471 | 8476 | 8481 | 8486 | 8492 | 8497 | 7 3.5 |
| 89 | 8502 | 8507 | 8513 | 8518 | 8523 | 8528 | 8534 | 8539 | 8544 | 8549 | 8 4.0 |
| 8290 | 91 8555 | 8560 | 8565 | 8570 | 8575 | 8581 | 8586 | 8591 | 8596 | 8602 | 9 4.5 |
| 91 | 8607 | 8612 | 8617 | 8623 | 8628 | 8633 | 8638 | 8644 | 8649 | 8654 | |
| 92 | 8659 | 8665 | 8670 | 8675 | 8680 | 8685 | 8691 | 8696 | 8701 | 8706 | |
| 93 | 8712 | 8717 | 8722 | 8727 | 8733 | 8738 | 8743 | 8748 | 8754 | 8759 | |
| 94 | 8764 | 8769 | 8775 | 8780 | 8785 | 8790 | 8795 | 8801 | 8806 | 8811 | |
| 95 | 91 8816 | 8822 | 8827 | 8832 | 8837 | 8843 | 8848 | 8853 | 8858 | 8864 | |
| 96 | 8869 | 8874 | 8879 | 8884 | 8890 | 8895 | 8900 | 8905 | 8911 | 8916 | |
| 97 | 8921 | 8926 | 8932 | 8937 | 8942 | 8947 | 8952 | 8958 | 8963 | 8968 | |
| 98 | 8973 | 8979 | 8984 | 8989 | 8994 | 9000 | 9005 | 9010 | 9015 | 9021 | |
| 99 | 9026 | 9031 | 9036 | 9041 | 9047 | 9052 | 9057 | 9062 | 9068 | 9073 | |
| 8300 | 91 9078 | 9083 | 9089 | 9094 | 9099 | 9104 | 9109 | 9115 | 9120 | 9125 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 82500" | 22° 55' 0" | | | | 8250" = 2° 17' 30" | | | S. 4,685 | 459 | T. 807 | |
| 82600 | 22 56 40 | | | | 8260 = 2 17 40 | | | | 459 | 807 | |
| 82700 | 22 58 20 | | | | 8270 = 2 17 50 | | | | 459 | 808 | |
| 82800 | 23 0 0 | | | | 8280 = 2 18 0 | | | | 458 | 808 | |
| 82900 | 23 1 40 | | | | 8290 = 2 18 10 | | | | 458 | 809 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|---------|------|------|------|------|--------|------|------|------|----------|------------|
| 8300 | 91 9078 | 9083 | 9089 | 9094 | 9099 | 9104 | 9109 | 9115 | 9120 | 9125 | |
| 01 | 9130 | 9136 | 9141 | 9146 | 9151 | 9157 | 9162 | 9167 | 9172 | 9177 | |
| 02 | 9183 | 9188 | 9193 | 9198 | 9204 | 9209 | 9214 | 9219 | 9225 | 9230 | |
| 03 | 9235 | 9240 | 9245 | 9251 | 9256 | 9261 | 9266 | 9272 | 9277 | 9282 | |
| 04 | 9287 | 9293 | 9298 | 9303 | 9308 | 9313 | 9319 | 9324 | 9329 | 9334 | |
| 05 | 91 9340 | 9345 | 9350 | 9355 | 9361 | 9366 | 9371 | 9376 | 9381 | 9387 | |
| 06 | 9392 | 9397 | 9402 | 9408 | 9413 | 9418 | 9423 | 9429 | 9434 | 9439 | |
| 07 | 9441 | 9449 | 9455 | 9460 | 9465 | 9470 | 9476 | 9481 | 9486 | 9491 | |
| 08 | 9496 | 9502 | 9507 | 9512 | 9517 | 9523 | 9528 | 9533 | 9538 | 9544 | |
| 09 | 9549 | 9554 | 9559 | 9564 | 9570 | 9575 | 9580 | 9585 | 9591 | 9596 | |
| 8310 | 91 9601 | 9606 | 9611 | 9617 | 9622 | 9627 | 9632 | 9638 | 9643 | 9648 | |
| 11 | 9653 | 9659 | 9664 | 9669 | 9674 | 9679 | 9685 | 9690 | 9695 | 9700 | 6 |
| 12 | 9706 | 9711 | 9716 | 9721 | 9726 | 9732 | 9737 | 9742 | 9747 | 9753 | 1 0.6 |
| 13 | 9758 | 9763 | 9768 | 9773 | 9779 | 9784 | 9789 | 9794 | 9800 | 9805 | 2 1.2 |
| 14 | 9810 | 9815 | 9820 | 9826 | 9831 | 9836 | 9841 | 9847 | 9852 | 9857 | 3 1.8 |
| 15 | 91 9862 | 9867 | 9873 | 9878 | 9883 | 9888 | 9894 | 9899 | 9904 | 9909 | 4 2.4 |
| 16 | 9914 | 9920 | 9925 | 9930 | 9935 | 9941 | 9946 | 9951 | 9956 | 9961 | 5 3.0 |
| 17 | 9967 | 9972 | 9977 | 9982 | 9988 | 9993 | 9998 | 0003 | 0008 | 0014 | 6 3.6 |
| 18 | 92 0019 | 0024 | 0029 | 0035 | 0040 | 0045 | 0050 | 0055 | 0061 | 0066 | 7 4.2 |
| 19 | 0071 | 0076 | 0082 | 0087 | 0092 | 0097 | 0102 | 0108 | 0113 | 0118 | 8 4.8 |
| 8320 | 92 0123 | 0129 | 0134 | 0139 | 0144 | 0149 | 0155 | 0160 | 0165 | 0170 | 9 5.4 |
| 21 | 0176 | 0181 | 0186 | 0191 | 0196 | 0202 | 0207 | 0212 | 0217 | 0222 | |
| 22 | 0228 | 0233 | 0238 | 0243 | 0249 | 0254 | 0259 | 0264 | 0269 | 0275 | |
| 23 | 0280 | 0285 | 0290 | 0296 | 0301 | 0306 | 0311 | 0316 | 0322 | 0327 | |
| 24 | 0332 | 0337 | 0343 | 0348 | 0353 | 0358 | 0363 | 0369 | 0374 | 0379 | |
| 25 | 92 0384 | 0389 | 0395 | 0400 | 0405 | 0410 | 0416 | 0421 | 0426 | 0431 | |
| 26 | 0436 | 0442 | 0447 | 0452 | 0457 | 0462 | 0468 | 0473 | 0478 | 0483 | |
| 27 | 0489 | 0494 | 0499 | 0504 | 0509 | 0515 | 0520 | 0525 | 0530 | 0536 | |
| 28 | 0541 | 0546 | 0551 | 0556 | 0562 | 0567 | 0572 | 0577 | 0582 | 0588 | |
| 29 | 0593 | 0598 | 0603 | 0609 | 0614 | 0619 | 0624 | 0629 | 0635 | 0640 | |
| 8330 | 92 0645 | 0650 | 0655 | 0661 | 0666 | 0671 | 0676 | 0681 | 0687 | 0692 | |
| 31 | 0697 | 0702 | 0708 | 0713 | 0718 | 0723 | 0728 | 0734 | 0739 | 0744 | 5 |
| 32 | 0749 | 0754 | 0760 | 0765 | 0771 | 0776 | 0781 | 0786 | 0791 | 0796 | 1 0.5 |
| 33 | 0801 | 0807 | 0812 | 0817 | 0822 | 0827 | 0833 | 0838 | 0843 | 0848 | 2 1.0 |
| 34 | 0853 | 0859 | 0864 | 0869 | 0874 | 0880 | 0885 | 0890 | 0895 | 0900 | 3 1.5 |
| 35 | 92 0906 | 0911 | 0916 | 0921 | 0926 | 0932 | 0937 | 0942 | 0947 | 0952 | 4 2.0 |
| 36 | 0958 | 0963 | 0968 | 0973 | 0979 | 0984 | 0989 | 0994 | 0999 | 1005 | 5 2.5 |
| 37 | 1010 | 1015 | 1020 | 1025 | 1031 | 1036 | 1041 | 1046 | 1051 | 1057 | 6 3.0 |
| 38 | 1062 | 1067 | 1072 | 1078 | 1083 | 1088 | 1093 | 1098 | 1104 | 1109 | 7 3.5 |
| 39 | 1114 | 1119 | 1124 | 1130 | 1135 | 1140 | 1145 | 1150 | 1156 | 1161 | 8 4.0 |
| 8340 | 92 1166 | 1171 | 1176 | 1182 | 1187 | 1192 | 1197 | 1203 | 1208 | 1213 | 9 4.5 |
| 41 | 1218 | 1223 | 1229 | 1234 | 1239 | 1244 | 1249 | 1255 | 1260 | 1265 | |
| 42 | 1270 | 1275 | 1281 | 1286 | 1291 | 1296 | 1301 | 1307 | 1312 | 1317 | |
| 43 | 1322 | 1327 | 1333 | 1338 | 1343 | 1348 | 1353 | 1359 | 1364 | 1369 | |
| 44 | 1374 | 1380 | 1385 | 1390 | 1395 | 1400 | 1406 | 1411 | 1416 | 1421 | |
| 45 | 92 1426 | 1432 | 1437 | 1442 | 1447 | 1452 | 1458 | 1463 | 1468 | 1473 | |
| 46 | 1478 | 1484 | 1489 | 1494 | 1499 | 1504 | 1510 | 1515 | 1520 | 1525 | |
| 47 | 1530 | 1536 | 1541 | 1546 | 1551 | 1556 | 1562 | 1567 | 1572 | 1577 | |
| 48 | 1582 | 1588 | 1593 | 1598 | 1603 | 1608 | 1614 | 1619 | 1624 | 1629 | |
| 49 | 1634 | 1640 | 1645 | 1650 | 1655 | 1660 | 1666 | 1671 | 1676 | 1681 | |
| 8350 | 92 1686 | 1692 | 1697 | 1702 | 1707 | 1712 | 1718 | 1723 | 1728 | 1733 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 83000" | 23° | 3' | 20" | | | 83000" | 2° | 18' | 20" | S. 4,685 | 458 T. 809 |
| 83100 | 23 | 5 | 0 | | | 8310 | 2 | 18 | 30 | 457 | 810 |
| 83200 | 23 | 6 | 40 | | | 8320 | 2 | 18 | 40 | 457 | 810 |
| 83300 | 23 | 8 | 20 | | | 8330 | 2 | 18 | 50 | 457 | 811 |
| 83400 | 23 | 10 | 0 | | | 8340 | 2 | 19 | 0 | 457 | 812 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|------|-------|------------|----------|------|--------|-------|
| 8350 | 92 1686 | 1692 | 1697 | 1702 | 1707 | 1712 | 1718 | 1723 | 1728 | 1733 | |
| 51 | 1738 | 1744 | 1749 | 1754 | 1759 | 1764 | 1770 | 1775 | 1780 | 1785 | |
| 52 | 1790 | 1796 | 1801 | 1806 | 1811 | 1816 | 1822 | 1827 | 1832 | 1837 | |
| 53 | 1842 | 1848 | 1853 | 1858 | 1863 | 1868 | 1874 | 1879 | 1884 | 1889 | |
| 54 | 1894 | 1900 | 1905 | 1910 | 1915 | 1920 | 1926 | 1931 | 1936 | 1941 | |
| 55 | 92 1946 | 1952 | 1957 | 1962 | 1967 | 1972 | 1978 | 1983 | 1988 | 1993 | |
| 56 | 1998 | 2004 | 2009 | 2014 | 2019 | 2024 | 2030 | 2035 | 2040 | 2045 | |
| 57 | 2050 | 2056 | 2061 | 2066 | 2071 | 2076 | 2082 | 2087 | 2092 | 2097 | |
| 58 | 2102 | 2108 | 2113 | 2118 | 2123 | 2128 | 2134 | 2139 | 2144 | 2149 | |
| 59 | 2154 | 2160 | 2165 | 2170 | 2175 | 2180 | 2185 | 2191 | 2196 | 2201 | |
| 8360 | 92 2206 | 2211 | 2217 | 2222 | 2227 | 2232 | 2237 | 2243 | 2248 | 2253 | |
| 61 | 2258 | 2263 | 2269 | 2274 | 2279 | 2284 | 2289 | 2295 | 2300 | 2305 | 6 |
| 62 | 2310 | 2315 | 2321 | 2326 | 2331 | 2336 | 2341 | 2347 | 2352 | 2357 | 1 0.6 |
| 63 | 2362 | 2367 | 2372 | 2378 | 2383 | 2388 | 2393 | 2398 | 2404 | 2409 | 2 1.2 |
| 64 | 2414 | 2419 | 2424 | 2430 | 2435 | 2440 | 2445 | 2450 | 2456 | 2461 | 3 1.8 |
| 65 | 92 2466 | 2471 | 2476 | 2482 | 2487 | 2492 | 2497 | 2502 | 2507 | 2513 | 4 2.4 |
| 66 | 2518 | 2523 | 2528 | 2533 | 2539 | 2544 | 2549 | 2554 | 2559 | 2565 | 5 3.0 |
| 67 | 2570 | 2575 | 2580 | 2585 | 2591 | 2596 | 2601 | 2606 | 2611 | 2616 | 6 3.6 |
| 68 | 2622 | 2627 | 2632 | 2637 | 2642 | 2648 | 2653 | 2658 | 2663 | 2668 | 7 4.2 |
| 69 | 2674 | 2679 | 2684 | 2689 | 2694 | 2700 | 2705 | 2710 | 2715 | 2720 | 8 4.8 |
| 8370 | 92 2725 | 2731 | 2736 | 2741 | 2746 | 2751 | 2757 | 2762 | 2767 | 2772 | 9 5.4 |
| 71 | 2777 | 2783 | 2788 | 2793 | 2798 | 2803 | 2808 | 2814 | 2819 | 2824 | |
| 72 | 2829 | 2834 | 2840 | 2845 | 2850 | 2855 | 2860 | 2866 | 2871 | 2876 | |
| 73 | 2881 | 2886 | 2891 | 2897 | 2902 | 2907 | 2912 | 2917 | 2923 | 2928 | |
| 74 | 2933 | 2938 | 2943 | 2949 | 2954 | 2959 | 2964 | 2969 | 2974 | 2980 | |
| 75 | 92 2985 | 2990 | 2995 | 3000 | 3006 | 3011 | 3016 | 3021 | 3026 | 3031 | |
| 76 | 3037 | 3042 | 3047 | 3052 | 3057 | 3063 | 3068 | 3073 | 3078 | 3083 | |
| 77 | 3089 | 3094 | 3099 | 3104 | 3109 | 3114 | 3120 | 3125 | 3130 | 3135 | |
| 78 | 3140 | 3146 | 3151 | 3156 | 3161 | 3166 | 3171 | 3177 | 3182 | 3187 | |
| 79 | 3192 | 3197 | 3203 | 3208 | 3213 | 3218 | 3223 | 3228 | 3234 | 3239 | |
| 8380 | 92 3244 | 3249 | 3254 | 3260 | 3265 | 3270 | 3275 | 3280 | 3285 | 3291 | |
| 81 | 3296 | 3301 | 3306 | 3311 | 3317 | 3322 | 3327 | 3332 | 3337 | 3342 | 5 |
| 82 | 3348 | 3353 | 3358 | 3363 | 3368 | 3374 | 3379 | 3384 | 3389 | 3394 | 1 0.5 |
| 83 | 3399 | 3405 | 3410 | 3415 | 3420 | 3425 | 3431 | 3436 | 3441 | 3446 | 2 1.0 |
| 84 | 3451 | 3456 | 3462 | 3467 | 3472 | 3477 | 3482 | 3488 | 3493 | 3498 | 3 1.5 |
| 85 | 92 3503 | 3508 | 3513 | 3519 | 3524 | 3529 | 3534 | 3539 | 3545 | 3550 | 4 2.0 |
| 86 | 3555 | 3560 | 3565 | 3570 | 3576 | 3581 | 3586 | 3591 | 3596 | 3601 | 5 2.5 |
| 87 | 3607 | 3612 | 3617 | 3622 | 3627 | 3633 | 3638 | 3643 | 3648 | 3653 | 6 3.0 |
| 88 | 3658 | 3664 | 3669 | 3674 | 3679 | 3684 | 3689 | 3695 | 3700 | 3705 | 7 3.5 |
| 89 | 3710 | 3715 | 3721 | 3726 | 3731 | 3736 | 3741 | 3746 | 3752 | 3757 | 8 4.0 |
| 8390 | 92 3762 | 3767 | 3772 | 3777 | 3783 | 3788 | 3793 | 3798 | 3803 | 3809 | 9 4.5 |
| 91 | 3814 | 3819 | 3824 | 3829 | 3834 | 3840 | 3845 | 3850 | 3855 | 3860 | |
| 92 | 3865 | 3871 | 3876 | 3881 | 3886 | 3891 | 3897 | 3902 | 3907 | 3912 | |
| 93 | 3917 | 3922 | 3928 | 3933 | 3938 | 3943 | 3948 | 3953 | 3959 | 3964 | |
| 94 | 3969 | 3974 | 3979 | 3984 | 3990 | 3995 | 4000 | 4005 | 4010 | 4016 | |
| 95 | 92 4021 | 4026 | 4031 | 4036 | 4041 | 4047 | 4052 | 4057 | 4062 | 4067 | |
| 96 | 4072 | 4078 | 4083 | 4088 | 4093 | 4098 | 4103 | 4109 | 4114 | 4119 | |
| 97 | 4124 | 4129 | 4134 | 4140 | 4145 | 4150 | 4155 | 4160 | 4166 | 4171 | |
| 98 | 4176 | 4181 | 4186 | 4191 | 4197 | 4202 | 4207 | 4212 | 4217 | 4222 | |
| 99 | 4228 | 4233 | 4238 | 4243 | 4248 | 4253 | 4259 | 4264 | 4269 | 4274 | |
| 8400 | 92 4279 | 4284 | 4290 | 4295 | 4300 | 4305 | 4310 | 4315 | 4321 | 4326 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 83500" | 23° 11' 40" | | | | | 8350" | 2° 19' 10" | S. 4,685 | 456 | T. 812 | |
| 83600 | 23 13 20 | | | | | 8360 | 2 19 20 | | 456 | 813 | |
| 83700 | 23 15 0 | | | | | 8370 | 2 19 30 | | 456 | 813 | |
| 83800 | 23 16 40 | | | | | 8380 | 2 19 40 | | 455 | 814 | |
| 83900 | 23 18 20 | | | | | 8390 | 2 19 50 | | 455 | 814 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------|------------|------|------|-------|------|-----------|----------|------|--------|-----|
| 8400 | 92 4279 | 4284 | 4290 | 4295 | 4300 | 4305 | 4310 | 4315 | 4321 | 4326 | |
| 01 | 4331 | 4336 | 4341 | 4346 | 4352 | 4357 | 4362 | 4367 | 4372 | 4378 | |
| 02 | 4383 | 4388 | 4393 | 4398 | 4403 | 4409 | 4414 | 4419 | 4424 | 4429 | |
| 03 | 4434 | 4440 | 4445 | 4450 | 4455 | 4460 | 4465 | 4471 | 4476 | 4481 | |
| 04 | 4486 | 4491 | 4496 | 4502 | 4507 | 4512 | 4517 | 4522 | 4527 | 4533 | |
| 05 | 92 4538 | 4543 | 4548 | 4553 | 4558 | 4564 | 4569 | 4574 | 4579 | 4584 | |
| 06 | 4589 | 4595 | 4600 | 4605 | 4610 | 4615 | 4620 | 4626 | 4631 | 4636 | |
| 07 | 4641 | 4646 | 4651 | 4657 | 4662 | 4667 | 4672 | 4677 | 4682 | 4688 | |
| 08 | 4693 | 4698 | 4703 | 4708 | 4713 | 4719 | 4724 | 4729 | 4734 | 4739 | |
| 09 | 4744 | 4750 | 4755 | 4760 | 4765 | 4770 | 4775 | 4781 | 4786 | 4791 | |
| 8410 | 92 4796 | 4801 | 4806 | 4811 | 4817 | 4822 | 4827 | 4832 | 4837 | 4842 | |
| 11 | 4848 | 4853 | 4858 | 4863 | 4868 | 4873 | 4879 | 4884 | 4889 | 4894 | |
| 12 | 4899 | 4904 | 4910 | 4915 | 4920 | 4925 | 4930 | 4935 | 4941 | 4946 | |
| 13 | 4951 | 4956 | 4961 | 4966 | 4972 | 4977 | 4982 | 4987 | 4992 | 4997 | |
| 14 | 5003 | 5008 | 5013 | 5018 | 5023 | 5028 | 5033 | 5039 | 5044 | 5049 | |
| 15 | 92 5054 | 5059 | 5064 | 5070 | 5075 | 5080 | 5085 | 5090 | 5095 | 5101 | |
| 16 | 5106 | 5111 | 5116 | 5121 | 5126 | 5132 | 5137 | 5142 | 5147 | 5152 | |
| 17 | 5157 | 5162 | 5168 | 5173 | 5178 | 5183 | 5188 | 5193 | 5199 | 5204 | |
| 18 | 5209 | 5214 | 5219 | 5224 | 5230 | 5235 | 5240 | 5245 | 5250 | 5255 | |
| 19 | 5261 | 5266 | 5271 | 5276 | 5281 | 5286 | 5291 | 5297 | 5302 | 5307 | |
| 8420 | 92 5312 | 5317 | 5322 | 5328 | 5333 | 5338 | 5343 | 5348 | 5353 | 5359 | |
| 21 | 5364 | 5369 | 5374 | 5379 | 5384 | 5389 | 5395 | 5400 | 5405 | 5410 | |
| 22 | 5415 | 5420 | 5426 | 5431 | 5436 | 5441 | 5446 | 5451 | 5456 | 5462 | |
| 23 | 5467 | 5472 | 5477 | 5482 | 5487 | 5493 | 5498 | 5503 | 5508 | 5513 | |
| 24 | 5518 | 5524 | 5529 | 5534 | 5539 | 5544 | 5549 | 5554 | 5560 | 5565 | |
| 25 | 92 5570 | 5575 | 5580 | 5585 | 5591 | 5596 | 5601 | 5606 | 5611 | 5616 | |
| 26 | 5621 | 5627 | 5632 | 5637 | 5642 | 5647 | 5652 | 5658 | 5663 | 5668 | |
| 27 | 5673 | 5678 | 5683 | 5688 | 5694 | 5699 | 5704 | 5709 | 5714 | 5719 | |
| 28 | 5725 | 5730 | 5735 | 5740 | 5745 | 5750 | 5755 | 5761 | 5766 | 5771 | |
| 29 | 5776 | 5781 | 5786 | 5792 | 5797 | 5802 | 5807 | 5812 | 5817 | 5822 | |
| 8430 | 92 5828 | 5833 | 5838 | 5843 | 5848 | 5853 | 5858 | 5864 | 5869 | 5874 | |
| 31 | 5879 | 5884 | 5889 | 5895 | 5900 | 5905 | 5910 | 5915 | 5920 | 5925 | |
| 32 | 5931 | 5936 | 5941 | 5946 | 5951 | 5956 | 5962 | 5967 | 5972 | 5977 | |
| 33 | 5982 | 5987 | 5992 | 5998 | 6003 | 6008 | 6013 | 6018 | 6023 | 6028 | |
| 34 | 6034 | 6039 | 6044 | 6049 | 6054 | 6059 | 6064 | 6070 | 6075 | 6080 | |
| 35 | 92 6085 | 6090 | 6095 | 6101 | 6106 | 6111 | 6116 | 6121 | 6126 | 6131 | |
| 36 | 6137 | 6142 | 6147 | 6152 | 6157 | 6162 | 6167 | 6173 | 6178 | 6183 | |
| 37 | 6188 | 6193 | 6198 | 6203 | 6209 | 6214 | 6219 | 6224 | 6229 | 6234 | |
| 38 | 6240 | 6245 | 6250 | 6255 | 6260 | 6265 | 6270 | 6276 | 6281 | 6286 | |
| 39 | 6291 | 6296 | 6301 | 6306 | 6312 | 6317 | 6322 | 6327 | 6332 | 6337 | |
| 8440 | 92 6342 | 6348 | 6353 | 6358 | 6363 | 6368 | 6373 | 6378 | 6384 | 6389 | |
| 41 | 6394 | 6399 | 6404 | 6409 | 6414 | 6420 | 6425 | 6430 | 6435 | 6440 | |
| 42 | 6445 | 6450 | 6456 | 6461 | 6466 | 6471 | 6476 | 6481 | 6487 | 6492 | |
| 43 | 6497 | 6502 | 6507 | 6512 | 6517 | 6523 | 6528 | 6533 | 6538 | 6543 | |
| 44 | 6548 | 6553 | 6559 | 6564 | 6569 | 6574 | 6579 | 6584 | 6589 | 6595 | |
| 45 | 92 6600 | 6605 | 6610 | 6615 | 6620 | 6625 | 6631 | 6636 | 6641 | 6646 | |
| 46 | 6651 | 6656 | 6661 | 6667 | 6672 | 6677 | 6682 | 6687 | 6692 | 6697 | |
| 47 | 6702 | 6708 | 6713 | 6718 | 6723 | 6728 | 6733 | 6738 | 6744 | 6749 | |
| 48 | 6754 | 6759 | 6764 | 6769 | 6774 | 6780 | 6785 | 6790 | 6795 | 6800 | |
| 49 | 6805 | 6810 | 6816 | 6821 | 6826 | 6831 | 6836 | 6841 | 6846 | 6852 | |
| 8450 | 92 6857 | 6862 | 6867 | 6872 | 6877 | 6882 | 6888 | 6893 | 6898 | 6903 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 84000 | = | 23° 20' 0" | | | 84000 | = | 2° 20' 0" | S. 4,685 | 455 | T. 815 | |
| 84100 | = | 23 21 40 | | | 84100 | = | 2 20 10 | | 455 | 816 | |
| 84200 | = | 23 23 20 | | | 84200 | = | 2 20 20 | | 454 | 816 | |
| 84300 | = | 23 25 0 | | | 84300 | = | 2 20 30 | | 454 | 817 | |
| 84400 | = | 23 26 40 | | | 84400 | = | 2 20 40 | | 454 | 817 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------|-------------|------|------|-------|------|------------|----------|------|--------|-------|
| 8450 | 92 6857 | 6862 | 6867 | 6872 | 6877 | 6882 | 6888 | 6893 | 6898 | 6903 | |
| 51 | 6908 | 6913 | 6918 | 6924 | 6929 | 6934 | 6939 | 6944 | 6949 | 6954 | |
| 52 | 6959 | 6965 | 6970 | 6975 | 6980 | 6985 | 6990 | 6995 | 7001 | 7006 | |
| 53 | 7011 | 7016 | 7021 | 7026 | 7031 | 7037 | 7042 | 7047 | 7052 | 7057 | |
| 54 | 7062 | 7067 | 7073 | 7078 | 7083 | 7088 | 7093 | 7098 | 7103 | 7108 | |
| 55 | 92 7114 | 7119 | 7124 | 7129 | 7134 | 7139 | 7144 | 7150 | 7155 | 7160 | |
| 56 | 7165 | 7170 | 7175 | 7180 | 7186 | 7191 | 7196 | 7201 | 7206 | 7211 | |
| 57 | 7216 | 7221 | 7227 | 7232 | 7237 | 7242 | 7247 | 7252 | 7257 | 7263 | |
| 58 | 7268 | 7273 | 7278 | 7283 | 7288 | 7293 | 7298 | 7304 | 7309 | 7314 | |
| 59 | 7319 | 7324 | 7329 | 7334 | 7340 | 7345 | 7350 | 7355 | 7360 | 7365 | |
| 8460 | 92 7370 | 7375 | 7381 | 7386 | 7391 | 7396 | 7401 | 7406 | 7411 | 7417 | |
| 61 | 7422 | 7427 | 7432 | 7437 | 7442 | 7447 | 7452 | 7458 | 7463 | 7468 | 6 |
| 62 | 7473 | 7478 | 7483 | 7488 | 7494 | 7499 | 7504 | 7509 | 7514 | 7519 | 1 0.6 |
| 63 | 7524 | 7529 | 7535 | 7540 | 7545 | 7550 | 7555 | 7560 | 7565 | 7571 | 2 1.2 |
| 64 | 7576 | 7581 | 7586 | 7591 | 7596 | 7601 | 7606 | 7612 | 7617 | 7622 | 3 1.8 |
| 65 | 92 7627 | 7632 | 7637 | 7642 | 7647 | 7653 | 7658 | 7663 | 7668 | 7673 | 4 2.4 |
| 66 | 7678 | 7683 | 7689 | 7694 | 7699 | 7704 | 7709 | 7714 | 7719 | 7724 | 5 3.0 |
| 67 | 7730 | 7735 | 7740 | 7745 | 7750 | 7755 | 7760 | 7765 | 7771 | 7776 | 6 3.6 |
| 68 | 7781 | 7786 | 7791 | 7796 | 7801 | 7806 | 7812 | 7817 | 7822 | 7827 | 7 4.2 |
| 69 | 7832 | 7837 | 7842 | 7848 | 7853 | 7858 | 7863 | 7868 | 7873 | 7878 | 8 4.8 |
| 8470 | 92 7883 | 7889 | 7894 | 7899 | 7904 | 7909 | 7914 | 7919 | 7924 | 7930 | 9 5.4 |
| 71 | 7935 | 7940 | 7945 | 7950 | 7955 | 7960 | 7965 | 7971 | 7976 | 7981 | |
| 72 | 7986 | 7991 | 7996 | 8001 | 8006 | 8012 | 8017 | 8022 | 8027 | 8032 | |
| 73 | 8037 | 8042 | 8047 | 8053 | 8058 | 8063 | 8068 | 8073 | 8078 | 8083 | |
| 74 | 8088 | 8094 | 8099 | 8104 | 8109 | 8114 | 8119 | 8124 | 8129 | 8135 | |
| 75 | 92 8140 | 8145 | 8150 | 8155 | 8160 | 8165 | 8170 | 8176 | 8181 | 8186 | |
| 76 | 8191 | 8196 | 8201 | 8206 | 8211 | 8217 | 8222 | 8227 | 8232 | 8237 | |
| 77 | 8242 | 8247 | 8252 | 8258 | 8263 | 8268 | 8273 | 8278 | 8283 | 8288 | |
| 78 | 8293 | 8299 | 8304 | 8309 | 8314 | 8319 | 8324 | 8329 | 8334 | 8340 | |
| 79 | 8345 | 8350 | 8355 | 8360 | 8365 | 8370 | 8375 | 8380 | 8386 | 8391 | |
| 8480 | 92 8396 | 8401 | 8406 | 8411 | 8416 | 8421 | 8427 | 8432 | 8437 | 8442 | |
| 81 | 8447 | 8452 | 8457 | 8462 | 8468 | 8473 | 8478 | 8483 | 8488 | 8493 | 5 |
| 82 | 8498 | 8503 | 8509 | 8514 | 8519 | 8524 | 8529 | 8534 | 8539 | 8544 | 1 0.5 |
| 83 | 8549 | 8555 | 8560 | 8565 | 8570 | 8575 | 8580 | 8585 | 8590 | 8596 | 2 1.0 |
| 84 | 8601 | 8606 | 8611 | 8616 | 8621 | 8626 | 8631 | 8636 | 8642 | 8647 | 3 1.5 |
| 85 | 92 8652 | 8657 | 8662 | 8667 | 8672 | 8677 | 8683 | 8688 | 8693 | 8698 | 4 2.0 |
| 86 | 8703 | 8708 | 8713 | 8718 | 8723 | 8729 | 8734 | 8739 | 8744 | 8749 | 5 2.5 |
| 87 | 8754 | 8759 | 8764 | 8770 | 8775 | 8780 | 8785 | 8790 | 8795 | 8800 | 6 3.0 |
| 88 | 8805 | 8810 | 8816 | 8821 | 8826 | 8831 | 8836 | 8841 | 8846 | 8851 | 7 3.5 |
| 89 | 8857 | 8862 | 8867 | 8872 | 8877 | 8882 | 8887 | 8892 | 8897 | 8903 | 8 4.0 |
| 8490 | 92 8908 | 8913 | 8918 | 8923 | 8928 | 8933 | 8938 | 8943 | 8949 | 8954 | 9 4.5 |
| 91 | 8959 | 8964 | 8969 | 8974 | 8979 | 8984 | 8990 | 8995 | 9000 | 9005 | |
| 92 | 9010 | 9015 | 9020 | 9025 | 9030 | 9036 | 9041 | 9046 | 9051 | 9056 | |
| 93 | 9061 | 9066 | 9071 | 9076 | 9082 | 9087 | 9092 | 9097 | 9102 | 9107 | |
| 94 | 9112 | 9117 | 9122 | 9128 | 9133 | 9138 | 9143 | 9148 | 9153 | 9158 | |
| 95 | 92 9163 | 9168 | 9174 | 9179 | 9184 | 9189 | 9194 | 9199 | 9204 | 9209 | |
| 96 | 9215 | 9220 | 9225 | 9230 | 9235 | 9240 | 9245 | 9250 | 9255 | 9261 | |
| 97 | 9266 | 9271 | 9276 | 9281 | 9286 | 9291 | 9296 | 9301 | 9307 | 9312 | |
| 98 | 9317 | 9322 | 9327 | 9332 | 9337 | 9342 | 9347 | 9352 | 9358 | 9363 | |
| 99 | 9368 | 9373 | 9378 | 9383 | 9388 | 9393 | 9398 | 9404 | 9409 | 9414 | |
| 8500 | 92 9419 | 9424 | 9429 | 9434 | 9439 | 9444 | 9450 | 9455 | 9460 | 9465 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 84500 | = | 23° 28' 20" | | | 84500 | = | 2° 20' 50" | S. 4.685 | 453 | T. 818 | |
| 84600 | = | 23 30 0 | | | 84600 | = | 2 21 0 | | 453 | 818 | |
| 84700 | = | 23 31 40 | | | 84700 | = | 2 21 10 | | 453 | 819 | |
| 84800 | = | 23 33 20 | | | 84800 | = | 2 21 20 | | 453 | 820 | |
| 84900 | = | 23 35 0 | | | 84900 | = | 2 21 30 | | 452 | 820 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|---------------------|------|---------------------|------|------|------|-------|
| 8500 | 92 9419 | 9424 | 9429 | 9434 | 9439 | 9444 | 9450 | 9455 | 9460 | 9465 | |
| 01 | 9470 | 9475 | 9480 | 9485 | 9490 | 9496 | 9501 | 9506 | 9511 | 9516 | |
| 02 | 9521 | 9526 | 9531 | 9536 | 9542 | 9547 | 9552 | 9557 | 9562 | 9567 | |
| 03 | 9572 | 9577 | 9582 | 9588 | 9593 | 9598 | 9603 | 9608 | 9613 | 9618 | |
| 04 | 9623 | 9628 | 9633 | 9639 | 9644 | 9649 | 9654 | 9659 | 9664 | 9669 | |
| 05 | 92 9674 | 9679 | 9685 | 9690 | 9695 | 9700 | 9705 | 9710 | 9715 | 9720 | |
| 06 | 9725 | 9730 | 9736 | 9741 | 9746 | 9751 | 9756 | 9761 | 9766 | 9771 | |
| 07 | 9776 | 9782 | 9787 | 9792 | 9797 | 9802 | 9807 | 9812 | 9817 | 9822 | |
| 08 | 9827 | 9833 | 9838 | 9843 | 9848 | 9853 | 9858 | 9863 | 9868 | 9873 | |
| 09 | 9879 | 9884 | 9889 | 9894 | 9899 | 9904 | 9909 | 9914 | 9919 | 9924 | |
| 8510 | 92 9930 | 9935 | 9940 | 9945 | 9950 | 9955 | 9960 | 9965 | 9970 | 9975 | |
| 11 | 9981 | 9986 | 9991 | 9996 | 0001 | 0006 | 0011 | 0016 | 0021 | 0026 | 6 |
| 12 | 93 0032 | 0037 | 0042 | 0047 | 0052 | 0057 | 0062 | 0067 | 0072 | 0078 | 1 0.6 |
| 13 | 0083 | 0088 | 0093 | 0098 | 0103 | 0108 | 0113 | 0118 | 0123 | 0129 | 2 1.2 |
| 14 | 0134 | 0139 | 0144 | 0149 | 0154 | 0159 | 0164 | 0169 | 0174 | 0180 | 3 1.8 |
| 15 | 93 0185 | 0190 | 0195 | 0200 | 0205 | 0210 | 0215 | 0220 | 0225 | 0231 | 4 2.4 |
| 16 | 0236 | 0241 | 0246 | 0251 | 0256 | 0261 | 0266 | 0271 | 0276 | 0282 | 5 3.0 |
| 17 | 0287 | 0292 | 0297 | 0302 | 0307 | 0312 | 0317 | 0322 | 0327 | 0333 | 6 3.6 |
| 18 | 0338 | 0343 | 0348 | 0353 | 0358 | 0363 | 0368 | 0373 | 0378 | 0384 | 7 4.2 |
| 19 | 0389 | 0394 | 0399 | 0404 | 0409 | 0414 | 0419 | 0424 | 0429 | 0434 | 8 4.8 |
| 8520 | 93 0440 | 0445 | 0450 | 0455 | 0460 | 0465 | 0470 | 0475 | 0480 | 0485 | 9 5.4 |
| 21 | 0491 | 0496 | 0501 | 0506 | 0511 | 0516 | 0521 | 0526 | 0531 | 0536 | |
| 22 | 0542 | 0547 | 0552 | 0557 | 0562 | 0567 | 0572 | 0577 | 0582 | 0587 | |
| 23 | 0592 | 0598 | 0603 | 0608 | 0613 | 0618 | 0623 | 0628 | 0633 | 0638 | |
| 24 | 0643 | 0649 | 0654 | 0659 | 0664 | 0669 | 0674 | 0679 | 0684 | 0689 | |
| 25 | 93 0694 | 0699 | 0705 | 0710 | 0715 | 0720 | 0725 | 0730 | 0735 | 0740 | |
| 26 | 0745 | 0750 | 0756 | 0761 | 0766 | 0771 | 0776 | 0781 | 0786 | 0791 | |
| 27 | 0796 | 0801 | 0806 | 0812 | 0817 | 0822 | 0827 | 0832 | 0837 | 0842 | |
| 28 | 0847 | 0852 | 0857 | 0862 | 0868 | 0873 | 0878 | 0883 | 0888 | 0893 | |
| 29 | 0898 | 0903 | 0908 | 0913 | 0918 | 0924 | 0929 | 0934 | 0939 | 0944 | |
| 8530 | 93 0949 | 0954 | 0959 | 0964 | 0969 | 0974 | 0980 | 0985 | 0990 | 0995 | |
| 31 | 1000 | 1005 | 1010 | 1015 | 1020 | 1025 | 1030 | 1036 | 1041 | 1046 | 5 |
| 32 | 1051 | 1056 | 1061 | 1066 | 1071 | 1076 | 1081 | 1086 | 1092 | 1097 | 1 0.5 |
| 33 | 1102 | 1107 | 1112 | 1117 | 1122 | 1127 | 1132 | 1137 | 1142 | 1148 | 2 1.0 |
| 34 | 1153 | 1158 | 1163 | 1168 | 1173 | 1178 | 1183 | 1188 | 1193 | 1198 | 3 1.5 |
| 35 | 93 1204 | 1209 | 1214 | 1219 | 1224 | 1229 | 1234 | 1239 | 1244 | 1249 | 4 2.0 |
| 36 | 1254 | 1259 | 1265 | 1270 | 1275 | 1280 | 1285 | 1290 | 1295 | 1300 | 5 2.5 |
| 37 | 1305 | 1310 | 1315 | 1321 | 1326 | 1331 | 1336 | 1341 | 1346 | 1351 | 6 3.0 |
| 38 | 1356 | 1361 | 1366 | 1371 | 1376 | 1382 | 1387 | 1392 | 1397 | 1402 | 7 3.5 |
| 39 | 1407 | 1412 | 1417 | 1422 | 1427 | 1432 | 1438 | 1443 | 1448 | 1453 | 8 4.0 |
| 8540 | 93 1458 | 1463 | 1468 | 1473 | 1478 | 1483 | 1488 | 1493 | 1499 | 1504 | 9 4.5 |
| 41 | 1509 | 1514 | 1519 | 1524 | 1529 | 1534 | 1539 | 1544 | 1549 | 1554 | |
| 42 | 1560 | 1565 | 1570 | 1575 | 1580 | 1585 | 1590 | 1595 | 1600 | 1605 | |
| 43 | 1610 | 1615 | 1621 | 1626 | 1631 | 1636 | 1641 | 1646 | 1651 | 1656 | |
| 44 | 1661 | 1666 | 1671 | 1676 | 1682 | 1687 | 1692 | 1697 | 1702 | 1707 | |
| 45 | 93 1712 | 1717 | 1722 | 1727 | 1732 | 1737 | 1743 | 1748 | 1753 | 1758 | |
| 46 | 1763 | 1768 | 1773 | 1778 | 1783 | 1788 | 1793 | 1798 | 1804 | 1809 | |
| 47 | 1814 | 1819 | 1824 | 1829 | 1834 | 1839 | 1844 | 1849 | 1854 | 1859 | |
| 48 | 1865 | 1870 | 1875 | 1880 | 1885 | 1890 | 1895 | 1900 | 1905 | 1910 | |
| 49 | 1915 | 1920 | 1925 | 1931 | 1936 | 1941 | 1946 | 1951 | 1956 | 1961 | |
| 8550 | 93 1966 | 1971 | 1976 | 1981 | 1986 | 1992 | 1997 | 2002 | 2007 | 2012 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 85000 | = 23° 36' 40" | | | | 85000' = 2° 21' 40" | | S. 4,685 452 T. 821 | | | | |
| 85100 | = 23 38 20 | | | | 85100 = 2 21 50 | | 452 821 | | | | |
| 85200 | = 23 40 0 | | | | 85200 = 2 22 0 | | 451 822 | | | | |
| 85300 | = 23 41 40 | | | | 85300 = 2 22 10 | | 451 823 | | | | |
| 85400 | = 23 43 20 | | | | 85400 = 2 22 20 | | 451 823 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|---------------------|------|------|----------|------|--------|-------|
| 8550 | 93 1966 | 1971 | 1976 | 1981 | 1986 | 1992 | 1997 | 2002 | 2007 | 2012 | |
| 51 | 2017 | 2021 | 2027 | 2032 | 2037 | 2042 | 2047 | 2052 | 2058 | 2063 | |
| 52 | 2068 | 2073 | 2078 | 2083 | 2088 | 2093 | 2098 | 2103 | 2108 | 2113 | |
| 53 | 2118 | 2124 | 2129 | 2134 | 2139 | 2144 | 2149 | 2154 | 2159 | 2164 | |
| 54 | 2169 | 2174 | 2179 | 2184 | 2190 | 2195 | 2200 | 2205 | 2210 | 2215 | |
| 55 | 93 2220 | 2225 | 2230 | 2235 | 2240 | 2245 | 2250 | 2256 | 2261 | 2266 | |
| 56 | 2271 | 2276 | 2281 | 2286 | 2291 | 2296 | 2301 | 2306 | 2311 | 2316 | |
| 57 | 2322 | 2327 | 2332 | 2337 | 2342 | 2347 | 2352 | 2357 | 2362 | 2367 | |
| 58 | 2372 | 2377 | 2382 | 2388 | 2393 | 2398 | 2403 | 2408 | 2413 | 2418 | |
| 59 | 2423 | 2428 | 2433 | 2438 | 2443 | 2448 | 2453 | 2459 | 2464 | 2469 | |
| 8560 | 93 2474 | 2479 | 2484 | 2489 | 2494 | 2499 | 2504 | 2509 | 2514 | 2519 | |
| 61 | 2524 | 2530 | 2535 | 2540 | 2545 | 2550 | 2555 | 2560 | 2565 | 2570 | 6 |
| 62 | 2575 | 2580 | 2585 | 2590 | 2596 | 2601 | 2606 | 2611 | 2616 | 2621 | 1 0.6 |
| 63 | 2626 | 2631 | 2636 | 2641 | 2646 | 2651 | 2656 | 2661 | 2667 | 2672 | 2 1.2 |
| 64 | 2677 | 2682 | 2687 | 2692 | 2697 | 2702 | 2707 | 2712 | 2717 | 2722 | 3 1.8 |
| 65 | 93 2727 | 2732 | 2738 | 2743 | 2748 | 2753 | 2758 | 2763 | 2768 | 2773 | 4 2.4 |
| 66 | 2778 | 2783 | 2788 | 2793 | 2798 | 2803 | 2808 | 2814 | 2819 | 2824 | 5 3.0 |
| 67 | 2829 | 2834 | 2839 | 2844 | 2849 | 2854 | 2859 | 2864 | 2869 | 2874 | 6 3.6 |
| 68 | 2879 | 2885 | 2890 | 2895 | 2900 | 2905 | 2910 | 2915 | 2920 | 2925 | 7 4.2 |
| 69 | 2930 | 2935 | 2940 | 2945 | 2950 | 2955 | 2961 | 2966 | 2971 | 2976 | 8 4.8 |
| 8570 | 93 3081 | 3086 | 3091 | 3096 | 3101 | 3106 | 3111 | 3116 | 3121 | 3126 | 9 5.4 |
| 71 | 3031 | 3037 | 3042 | 3047 | 3052 | 3057 | 3062 | 3067 | 3072 | 3077 | |
| 72 | 3082 | 3087 | 3092 | 3097 | 3102 | 3107 | 3113 | 3118 | 3123 | 3128 | |
| 73 | 3133 | 3138 | 3143 | 3148 | 3153 | 3158 | 3163 | 3168 | 3173 | 3178 | |
| 74 | 3183 | 3189 | 3194 | 3199 | 3204 | 3209 | 3214 | 3219 | 3224 | 3229 | |
| 75 | 93 3234 | 3239 | 3244 | 3249 | 3254 | 3259 | 3265 | 3270 | 3275 | 3280 | |
| 76 | 3285 | 3290 | 3295 | 3300 | 3305 | 3310 | 3315 | 3320 | 3325 | 3330 | |
| 77 | 3335 | 3340 | 3346 | 3351 | 3356 | 3361 | 3366 | 3371 | 3376 | 3381 | |
| 78 | 3386 | 3391 | 3396 | 3401 | 3406 | 3411 | 3416 | 3421 | 3427 | 3432 | |
| 79 | 3437 | 3442 | 3447 | 3452 | 3457 | 3462 | 3467 | 3472 | 3477 | 3482 | |
| 8580 | 93 3487 | 3492 | 3497 | 3502 | 3508 | 3513 | 3518 | 3523 | 3528 | 3533 | |
| 81 | 3538 | 3543 | 3548 | 3553 | 3558 | 3563 | 3568 | 3573 | 3578 | 3583 | 5 |
| 82 | 3589 | 3594 | 3599 | 3604 | 3609 | 3614 | 3619 | 3624 | 3629 | 3634 | 1 0.5 |
| 83 | 3639 | 3644 | 3649 | 3654 | 3659 | 3664 | 3669 | 3675 | 3680 | 3685 | 2 1.0 |
| 84 | 3690 | 3695 | 3700 | 3705 | 3710 | 3715 | 3720 | 3725 | 3730 | 3735 | 3 1.5 |
| 85 | 93 3740 | 3745 | 3750 | 3755 | 3761 | 3766 | 3771 | 3776 | 3781 | 3786 | 4 2.0 |
| 86 | 3791 | 3796 | 3801 | 3806 | 3811 | 3816 | 3821 | 3826 | 3831 | 3836 | 5 2.5 |
| 87 | 3841 | 3847 | 3852 | 3857 | 3862 | 3867 | 3872 | 3877 | 3882 | 3887 | 6 3.0 |
| 88 | 3892 | 3897 | 3902 | 3907 | 3912 | 3917 | 3922 | 3927 | 3932 | 3938 | 7 3.5 |
| 89 | 3943 | 3948 | 3953 | 3958 | 3963 | 3968 | 3973 | 3978 | 3983 | 3988 | 8 4.0 |
| 8590 | 93 3993 | 3998 | 4003 | 4008 | 4013 | 4018 | 4023 | 4029 | 4034 | 4039 | 9 4.5 |
| 91 | 4044 | 4049 | 4054 | 4059 | 4064 | 4069 | 4074 | 4079 | 4084 | 4089 | |
| 92 | 4094 | 4099 | 4104 | 4109 | 4114 | 4120 | 4125 | 4130 | 4135 | 4140 | |
| 93 | 4145 | 4150 | 4155 | 4160 | 4165 | 4170 | 4175 | 4180 | 4185 | 4190 | |
| 94 | 4195 | 4200 | 4205 | 4211 | 4216 | 4221 | 4226 | 4231 | 4236 | 4241 | |
| 95 | 93 4246 | 4251 | 4256 | 4261 | 4266 | 4271 | 4276 | 4281 | 4286 | 4291 | |
| 96 | 4296 | 4301 | 4307 | 4312 | 4317 | 4322 | 4327 | 4332 | 4337 | 4342 | |
| 97 | 4347 | 4352 | 4357 | 4362 | 4367 | 4372 | 4377 | 4382 | 4387 | 4392 | |
| 98 | 4397 | 4402 | 4408 | 4413 | 4418 | 4423 | 4428 | 4433 | 4438 | 4443 | |
| 99 | 4448 | 4453 | 4458 | 4463 | 4468 | 4473 | 4478 | 4483 | 4488 | 4493 | |
| 8600 | 93 4498 | 4504 | 4509 | 4514 | 4519 | 4524 | 4529 | 4534 | 4539 | 4544 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 85500" | 23° 45' 0" | | | | 85500" = 2° 22' 30" | | | S. 4.685 | 450 | T. 824 | |
| 85600 | 23 46 40 | | | | 85600 = 2 22 40 | | | | 450 | 824 | |
| 85700 | 23 48 20 | | | | 85700 = 2 22 50 | | | | 450 | 825 | |
| 85800 | 23 50 0 | | | | 85800 = 2 23 0 | | | | 450 | 825 | |
| 85900 | 23 51 40 | | | | 85900 = 2 23 10 | | | | 449 | 826 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|--------------------|------|------|----------|------|--------|------|-------|
| 8650 | 93 7016 | 7021 | 7026 | 7031 | 7036 | 7041 | 7046 | 7051 | 7056 | 7061 | |
| 51 | 7066 | 7071 | 7076 | 7081 | 7086 | 7091 | 7096 | 7101 | 7106 | 7111 | |
| 52 | 7117 | 7122 | 7127 | 7132 | 7137 | 7142 | 7147 | 7152 | 7157 | 7162 | |
| 53 | 7167 | 7172 | 7177 | 7182 | 7187 | 7192 | 7197 | 7202 | 7207 | 7212 | |
| 54 | 7217 | 7222 | 7227 | 7232 | 7237 | 7242 | 7247 | 7252 | 7257 | 7262 | |
| 55 | 93 7267 | 7272 | 7277 | 7282 | 7287 | 7292 | 7297 | 7302 | 7307 | 7312 | |
| 56 | 7317 | 7322 | 7327 | 7332 | 7337 | 7342 | 7347 | 7352 | 7357 | 7362 | |
| 57 | 7367 | 7372 | 7377 | 7382 | 7387 | 7392 | 7397 | 7402 | 7407 | 7412 | |
| 58 | 7418 | 7423 | 7428 | 7433 | 7438 | 7443 | 7448 | 7453 | 7458 | 7463 | |
| 59 | 7468 | 7473 | 7478 | 7483 | 7488 | 7493 | 7498 | 7503 | 7508 | 7513 | |
| 8660 | 93 7518 | 7523 | 7528 | 7533 | 7538 | 7543 | 7548 | 7553 | 7558 | 7563 | |
| 61 | 7568 | 7573 | 7578 | 7583 | 7588 | 7593 | 7598 | 7603 | 7608 | 7613 | 5 |
| 62 | 7618 | 7623 | 7628 | 7633 | 7638 | 7643 | 7648 | 7653 | 7658 | 7663 | 1 0.5 |
| 63 | 7668 | 7673 | 7678 | 7683 | 7688 | 7693 | 7698 | 7703 | 7708 | 7713 | 2 1.0 |
| 64 | 7718 | 7723 | 7728 | 7733 | 7738 | 7743 | 7748 | 7753 | 7758 | 7763 | 3 1.5 |
| 65 | 93 7769 | 7774 | 7779 | 7784 | 7789 | 7794 | 7799 | 7804 | 7809 | 7814 | 4 2.0 |
| 66 | 7819 | 7824 | 7829 | 7834 | 7839 | 7844 | 7849 | 7854 | 7859 | 7864 | 5 2.5 |
| 67 | 7869 | 7874 | 7879 | 7884 | 7889 | 7894 | 7899 | 7904 | 7909 | 7914 | 6 3.0 |
| 68 | 7919 | 7924 | 7929 | 7934 | 7939 | 7944 | 7949 | 7954 | 7959 | 7964 | 7 3.5 |
| 69 | 7969 | 7974 | 7979 | 7984 | 7989 | 7994 | 7999 | 8004 | 8009 | 8014 | 8 4.0 |
| 8670 | 93 8019 | 8024 | 8029 | 8034 | 8039 | 8044 | 8049 | 8054 | 8059 | 8064 | 9 4.5 |
| 71 | 8069 | 8074 | 8079 | 8084 | 8089 | 8094 | 8099 | 8104 | 8109 | 8114 | |
| 72 | 8119 | 8124 | 8129 | 8134 | 8139 | 8144 | 8149 | 8154 | 8159 | 8164 | |
| 73 | 8169 | 8174 | 8179 | 8184 | 8189 | 8194 | 8199 | 8204 | 8209 | 8214 | |
| 74 | 8219 | 8224 | 8229 | 8234 | 8239 | 8244 | 8249 | 8254 | 8259 | 8264 | |
| 75 | 93 8269 | 8274 | 8279 | 8284 | 8289 | 8294 | 8299 | 8304 | 8309 | 8314 | |
| 76 | 8320 | 8325 | 8330 | 8335 | 8340 | 8345 | 8350 | 8355 | 8360 | 8365 | |
| 77 | 8370 | 8375 | 8380 | 8385 | 8390 | 8395 | 8400 | 8405 | 8410 | 8415 | |
| 78 | 8420 | 8425 | 8430 | 8435 | 8440 | 8445 | 8450 | 8455 | 8460 | 8465 | |
| 79 | 8470 | 8475 | 8480 | 8485 | 8490 | 8495 | 8500 | 8505 | 8510 | 8515 | |
| 8680 | 93 8520 | 8525 | 8530 | 8535 | 8540 | 8545 | 8550 | 8555 | 8560 | 8565 | |
| 81 | 8570 | 8575 | 8580 | 8585 | 8590 | 8595 | 8600 | 8605 | 8610 | 8615 | 4 |
| 82 | 8620 | 8625 | 8630 | 8635 | 8640 | 8645 | 8650 | 8655 | 8660 | 8665 | 1 0.4 |
| 83 | 8670 | 8675 | 8680 | 8685 | 8690 | 8695 | 8700 | 8705 | 8710 | 8715 | 2 0.8 |
| 84 | 8720 | 8725 | 8730 | 8735 | 8740 | 8745 | 8750 | 8755 | 8760 | 8765 | 3 1.2 |
| 85 | 93 8770 | 8775 | 8780 | 8785 | 8790 | 8795 | 8800 | 8805 | 8810 | 8815 | 4 1.6 |
| 86 | 8820 | 8825 | 8830 | 8835 | 8840 | 8845 | 8850 | 8855 | 8860 | 8865 | 5 2.0 |
| 87 | 8870 | 8875 | 8880 | 8885 | 8890 | 8895 | 8900 | 8905 | 8910 | 8915 | 6 2.4 |
| 88 | 8920 | 8925 | 8930 | 8935 | 8940 | 8945 | 8950 | 8955 | 8960 | 8965 | 7 2.8 |
| 89 | 8970 | 8975 | 8980 | 8985 | 8990 | 8995 | 9000 | 9005 | 9010 | 9015 | 8 3.2 |
| 8690 | 93 9020 | 9025 | 9030 | 9035 | 9040 | 9045 | 9050 | 9055 | 9060 | 9065 | 9 3.6 |
| 91 | 9070 | 9075 | 9080 | 9085 | 9090 | 9095 | 9100 | 9105 | 9110 | 9115 | |
| 92 | 9120 | 9125 | 9130 | 9135 | 9140 | 9145 | 9150 | 9155 | 9160 | 9165 | |
| 93 | 9170 | 9175 | 9180 | 9185 | 9190 | 9195 | 9200 | 9205 | 9210 | 9215 | |
| 94 | 9220 | 9225 | 9230 | 9235 | 9240 | 9245 | 9250 | 9255 | 9260 | 9265 | |
| 95 | 93 9270 | 9275 | 9280 | 9285 | 9290 | 9295 | 9300 | 9305 | 9310 | 9315 | |
| 96 | 9320 | 9325 | 9330 | 9335 | 9340 | 9345 | 9349 | 9354 | 9359 | 9364 | |
| 97 | 9369 | 9374 | 9379 | 9384 | 9389 | 9394 | 9399 | 9404 | 9409 | 9414 | |
| 98 | 9419 | 9424 | 9429 | 9434 | 9439 | 9444 | 9449 | 9454 | 9459 | 9464 | |
| 99 | 9469 | 9474 | 9479 | 9484 | 9489 | 9494 | 9499 | 9504 | 9509 | 9514 | |
| 8700 | 93 9519 | 9524 | 9529 | 9534 | 9539 | 9544 | 9549 | 9554 | 9559 | 9564 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 86500" = 24° 1' 40" | | | 8650" = 2° 24' 10" | | | S. 4,685 | 448 | T. 830 | | |
| | 86600" = 24 3 20 | | | 8660" = 2 24 20 | | | | 447 | 830 | | |
| | 86700" = 24 5 0 | | | 8670" = 2 24 30 | | | | 447 | 831 | | |
| | 86800" = 24 6 40 | | | 8680" = 2 24 40 | | | | 447 | 831 | | |
| | 86900" = 24 8 20 | | | 8690" = 2 24 50 | | | | 446 | 832 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|---------------------|------|------|------|-------------------|------|------|----------|------|--------|-------|
| 8700 | 93 9519 | 9524 | 9529 | 9534 | 9539 | 9544 | 9549 | 9554 | 9559 | 9564 | |
| 01 | 9569 | 9574 | 9579 | 9584 | 9589 | 9594 | 9599 | 9604 | 9609 | 9614 | |
| 02 | 9619 | 9624 | 9629 | 9634 | 9639 | 9644 | 9649 | 9654 | 9659 | 9664 | |
| 03 | 9669 | 9674 | 9679 | 9684 | 9689 | 9694 | 9699 | 9704 | 9709 | 9714 | |
| 04 | 9719 | 9724 | 9729 | 9734 | 9739 | 9744 | 9749 | 9754 | 9759 | 9764 | |
| 05 | 93 9769 | 9774 | 9779 | 9784 | 9789 | 9794 | 9799 | 9804 | 9809 | 9814 | |
| 06 | 9819 | 9824 | 9829 | 9834 | 9839 | 9844 | 9849 | 9854 | 9859 | 9864 | |
| 07 | 9869 | 9874 | 9879 | 9884 | 9888 | 9893 | 9898 | 9903 | 9908 | 9913 | |
| 08 | 9918 | 9923 | 9928 | 9933 | 9938 | 9943 | 9948 | 9953 | 9958 | 9963 | |
| 09 | 9968 | 9973 | 9978 | 9983 | 9988 | 9993 | 9998 | 0003 | 0008 | 0013 | |
| 8710 | 94 0018 | 0023 | 0028 | 0033 | 0038 | 0043 | 0048 | 0053 | 0058 | 0063 | |
| 11 | 0068 | 0073 | 0078 | 0083 | 0088 | 0093 | 0098 | 0103 | 0108 | 0113 | 5 |
| 12 | 0118 | 0123 | 0128 | 0133 | 0138 | 0143 | 0148 | 0153 | 0158 | 0163 | 1 0.5 |
| 13 | 0168 | 0173 | 0178 | 0183 | 0188 | 0193 | 0198 | 0203 | 0208 | 0213 | 2 1.0 |
| 14 | 0218 | 0223 | 0228 | 0233 | 0237 | 0242 | 0247 | 0252 | 0257 | 0262 | 3 1.5 |
| 15 | 94 0267 | 0272 | 0277 | 0282 | 0287 | 0292 | 0297 | 0302 | 0307 | 0312 | 4 2.0 |
| 16 | 0317 | 0322 | 0327 | 0332 | 0337 | 0342 | 0347 | 0352 | 0357 | 0362 | 5 2.5 |
| 17 | 0367 | 0372 | 0377 | 0382 | 0387 | 0392 | 0397 | 0402 | 0407 | 0412 | 6 3.0 |
| 18 | 0417 | 0422 | 0427 | 0432 | 0437 | 0442 | 0447 | 0452 | 0457 | 0462 | 7 3.5 |
| 19 | 0467 | 0472 | 0477 | 0482 | 0487 | 0492 | 0497 | 0502 | 0507 | 0512 | 8 4.0 |
| 8720 | 94 0516 | 0521 | 0526 | 0531 | 0536 | 0541 | 0546 | 0551 | 0556 | 0561 | 9 4.5 |
| 21 | 0566 | 0571 | 0576 | 0581 | 0586 | 0591 | 0596 | 0601 | 0606 | 0611 | |
| 22 | 0616 | 0621 | 0626 | 0631 | 0636 | 0641 | 0646 | 0651 | 0656 | 0661 | |
| 23 | 0666 | 0671 | 0676 | 0681 | 0686 | 0691 | 0696 | 0701 | 0706 | 0711 | |
| 24 | 0716 | 0721 | 0726 | 0731 | 0736 | 0741 | 0746 | 0751 | 0755 | 0760 | |
| 25 | 94 0765 | 0770 | 0775 | 0780 | 0785 | 0790 | 0795 | 0800 | 0805 | 0810 | |
| 26 | 0815 | 0820 | 0825 | 0830 | 0835 | 0840 | 0845 | 0850 | 0855 | 0860 | |
| 27 | 0865 | 0870 | 0875 | 0880 | 0885 | 0890 | 0895 | 0900 | 0905 | 0910 | |
| 28 | 0915 | 0920 | 0925 | 0930 | 0935 | 0940 | 0945 | 0950 | 0955 | 0960 | |
| 29 | 0964 | 0969 | 0974 | 0979 | 0984 | 0989 | 0994 | 0999 | 1004 | 1009 | |
| 8730 | 94 1014 | 1019 | 1024 | 1029 | 1034 | 1039 | 1044 | 1049 | 1054 | 1059 | |
| 31 | 1064 | 1069 | 1074 | 1079 | 1084 | 1089 | 1094 | 1099 | 1104 | 1109 | 4 |
| 32 | 1114 | 1119 | 1124 | 1129 | 1134 | 1139 | 1144 | 1149 | 1154 | 1158 | 1 0.4 |
| 33 | 1163 | 1168 | 1173 | 1178 | 1183 | 1188 | 1193 | 1198 | 1203 | 1208 | 2 0.8 |
| 34 | 1213 | 1218 | 1223 | 1228 | 1233 | 1238 | 1243 | 1248 | 1253 | 1258 | 3 1.2 |
| 35 | 94 1263 | 1268 | 1273 | 1278 | 1283 | 1288 | 1293 | 1298 | 1303 | 1308 | 4 1.6 |
| 36 | 1313 | 1318 | 1323 | 1328 | 1333 | 1337 | 1342 | 1347 | 1352 | 1357 | 5 2.0 |
| 37 | 1362 | 1367 | 1372 | 1377 | 1382 | 1387 | 1392 | 1397 | 1402 | 1407 | 6 2.4 |
| 38 | 1412 | 1417 | 1422 | 1427 | 1432 | 1437 | 1442 | 1447 | 1452 | 1457 | 7 2.8 |
| 39 | 1462 | 1467 | 1472 | 1477 | 1482 | 1487 | 1492 | 1497 | 1501 | 1506 | 8 3.2 |
| 8740 | 94 1511 | 1516 | 1521 | 1526 | 1531 | 1536 | 1541 | 1546 | 1551 | 1556 | 9 3.6 |
| 41 | 1561 | 1566 | 1571 | 1576 | 1581 | 1586 | 1591 | 1596 | 1601 | 1606 | |
| 42 | 1611 | 1616 | 1621 | 1626 | 1631 | 1636 | 1641 | 1646 | 1651 | 1656 | |
| 43 | 1660 | 1665 | 1670 | 1675 | 1680 | 1685 | 1690 | 1695 | 1700 | 1705 | |
| 44 | 1710 | 1715 | 1720 | 1725 | 1730 | 1735 | 1740 | 1745 | 1750 | 1755 | |
| 45 | 94 1760 | 1765 | 1770 | 1775 | 1780 | 1785 | 1790 | 1795 | 1800 | 1805 | |
| 46 | 1809 | 1814 | 1819 | 1824 | 1829 | 1834 | 1839 | 1844 | 1849 | 1854 | |
| 47 | 1859 | 1864 | 1869 | 1874 | 1879 | 1884 | 1889 | 1894 | 1899 | 1904 | |
| 48 | 1909 | 1914 | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1948 | 1953 | |
| 49 | 1958 | 1963 | 1968 | 1973 | 1978 | 1983 | 1988 | 1993 | 1998 | 2003 | |
| 8750 | 94 2008 | 2013 | 2018 | 2023 | 2028 | 2033 | 2038 | 2043 | 2048 | 2053 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 87000" = 24° 10' 0" | | | | 8700" = 2° 25' 0" | | | S. 4,685 | 446 | T. 833 | |
| | 87100" = 24 11 40 | | | | 8710" = 2 25 10 | | | | 446 | 833 | |
| | 87200" = 24 13 20 | | | | 8720" = 2 25 20 | | | | 445 | 834 | |
| | 87300" = 24 15 0 | | | | 8730" = 2 25 30 | | | | 445 | 834 | |
| | 87400" = 24 16 40 | | | | 8740" = 2 25 40 | | | | 445 | 835 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|------|----------|------|--------|
| 8750 | 94 2008 | 2013 | 2018 | 2023 | 2028 | 2033 | 2038 | 2043 | 2048 | 2053 | |
| 51 | 2058 | 2063 | 2068 | 2073 | 2078 | 2082 | 2087 | 2092 | 2097 | 2102 | |
| 52 | 2107 | 2112 | 2117 | 2122 | 2127 | 2132 | 2137 | 2142 | 2147 | 2152 | |
| 53 | 2157 | 2162 | 2167 | 2172 | 2177 | 2182 | 2187 | 2192 | 2197 | 2202 | |
| 54 | 2207 | 2212 | 2216 | 2221 | 2226 | 2231 | 2236 | 2241 | 2246 | 2251 | |
| 55 | 94 2256 | 2261 | 2266 | 2271 | 2276 | 2281 | 2286 | 2291 | 2296 | 2301 | |
| 56 | 2306 | 2311 | 2316 | 2321 | 2326 | 2331 | 2336 | 2340 | 2345 | 2350 | |
| 57 | 2355 | 2360 | 2365 | 2370 | 2375 | 2380 | 2385 | 2390 | 2395 | 2400 | |
| 58 | 2405 | 2410 | 2415 | 2420 | 2425 | 2430 | 2435 | 2440 | 2445 | 2450 | * |
| 59 | 2455 | 2459 | 2464 | 2469 | 2474 | 2479 | 2484 | 2489 | 2494 | 2499 | |
| 8760 | 94 2504 | 2509 | 2514 | 2519 | 2524 | 2529 | 2534 | 2539 | 2544 | 2549 | |
| 61 | 2554 | 2559 | 2564 | 2569 | 2574 | 2578 | 2583 | 2588 | 2593 | 2598 | 5 |
| 62 | 2603 | 2608 | 2613 | 2618 | 2623 | 2628 | 2633 | 2638 | 2643 | 2648 | 1 0.5 |
| 63 | 2653 | 2658 | 2663 | 2668 | 2673 | 2678 | 2683 | 2688 | 2692 | 2697 | 2 1.0 |
| 64 | 2702 | 2707 | 2712 | 2717 | 2722 | 2727 | 2732 | 2737 | 2742 | 2747 | 3 1.5 |
| 65 | 94 2752 | 2757 | 2762 | 2767 | 2772 | 2777 | 2782 | 2787 | 2792 | 2797 | 4 2.0 |
| 66 | 2801 | 2806 | 2811 | 2816 | 2821 | 2826 | 2831 | 2836 | 2841 | 2846 | 5 2.5 |
| 67 | 2851 | 2856 | 2861 | 2866 | 2871 | 2876 | 2881 | 2886 | 2891 | 2896 | 6 3.0 |
| 68 | 2901 | 2905 | 2910 | 2915 | 2920 | 2925 | 2930 | 2935 | 2940 | 2945 | 7 3.5 |
| 69 | 2950 | 2955 | 2960 | 2965 | 2970 | 2975 | 2980 | 2985 | 2990 | 2995 | 8 4.0 |
| 8770 | 94 3000 | 3005 | 3009 | 3014 | 3019 | 3024 | 3029 | 3034 | 3039 | 3044 | 9 4.5 |
| 71 | 3049 | 3054 | 3059 | 3064 | 3069 | 3074 | 3079 | 3084 | 3089 | 3094 | |
| 72 | 3099 | 3104 | 3109 | 3113 | 3118 | 3123 | 3128 | 3133 | 3138 | 3143 | |
| 73 | 3148 | 3153 | 3158 | 3163 | 3168 | 3173 | 3178 | 3183 | 3188 | 3193 | |
| 74 | 3198 | 3203 | 3208 | 3212 | 3217 | 3222 | 3227 | 3232 | 3237 | 3242 | |
| 75 | 94 3247 | 3252 | 3257 | 3262 | 3267 | 3272 | 3277 | 3282 | 3287 | 3292 | |
| 76 | 3297 | 3302 | 3307 | 3311 | 3316 | 3321 | 3326 | 3331 | 3336 | 3341 | |
| 77 | 3346 | 3351 | 3356 | 3361 | 3366 | 3371 | 3376 | 3381 | 3386 | 3391 | |
| 78 | 3396 | 3401 | 3405 | 3410 | 3415 | 3420 | 3425 | 3430 | 3435 | 3440 | |
| 79 | 3445 | 3450 | 3455 | 3460 | 3465 | 3470 | 3475 | 3480 | 3485 | 3490 | |
| 8780 | 94 3495 | 3499 | 3504 | 3509 | 3514 | 3519 | 3524 | 3529 | 3534 | 3539 | |
| 81 | 3544 | 3549 | 3554 | 3559 | 3564 | 3569 | 3574 | 3579 | 3584 | 3588 | 4 |
| 82 | 3593 | 3598 | 3603 | 3608 | 3613 | 3618 | 3623 | 3628 | 3633 | 3638 | 1 0.4 |
| 83 | 3643 | 3648 | 3653 | 3658 | 3663 | 3668 | 3673 | 3677 | 3682 | 3687 | 2 0.8 |
| 84 | 3692 | 3697 | 3702 | 3707 | 3712 | 3717 | 3722 | 3727 | 3732 | 3737 | 3 1.2 |
| 85 | 94 3742 | 3747 | 3752 | 3757 | 3762 | 3766 | 3771 | 3776 | 3781 | 3786 | 4 1.6 |
| 86 | 3791 | 3796 | 3801 | 3806 | 3811 | 3816 | 3821 | 3826 | 3831 | 3836 | 5 2.0 |
| 87 | 3841 | 3846 | 3851 | 3855 | 3860 | 3865 | 3870 | 3875 | 3880 | 3885 | 6 2.4 |
| 88 | 3890 | 3895 | 3900 | 3905 | 3910 | 3915 | 3920 | 3925 | 3930 | 3935 | 7 2.8 |
| 89 | 3939 | 3944 | 3949 | 3954 | 3959 | 3964 | 3969 | 3974 | 3979 | 3984 | 8 3.2 |
| 8790 | 94 3989 | 3994 | 3999 | 4004 | 4009 | 4014 | 4019 | 4023 | 4028 | 4033 | 9 3.6 |
| 91 | 4038 | 4043 | 4048 | 4053 | 4058 | 4063 | 4068 | 4073 | 4078 | 4083 | |
| 92 | 4088 | 4093 | 4098 | 4102 | 4107 | 4112 | 4117 | 4122 | 4127 | 4132 | |
| 93 | 4137 | 4142 | 4147 | 4152 | 4157 | 4162 | 4167 | 4172 | 4177 | 4182 | |
| 94 | 4186 | 4191 | 4196 | 4201 | 4206 | 4211 | 4216 | 4221 | 4226 | 4231 | |
| 95 | 94 4236 | 4241 | 4246 | 4251 | 4256 | 4261 | 4265 | 4270 | 4275 | 4280 | |
| 96 | 4285 | 4290 | 4295 | 4300 | 4305 | 4310 | 4315 | 4320 | 4325 | 4330 | |
| 97 | 4335 | 4340 | 4344 | 4349 | 4354 | 4359 | 4364 | 4369 | 4374 | 4379 | |
| 98 | 4384 | 4389 | 4394 | 4399 | 4404 | 4409 | 4414 | 4419 | 4423 | 4428 | |
| 99 | 4433 | 4438 | 4443 | 4448 | 4453 | 4458 | 4463 | 4468 | 4473 | 4478 | |
| 8800 | 94 4483 | 4488 | 4493 | 4497 | 4502 | 4507 | 4512 | 4517 | 4522 | 4527 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 87500 | = 24° 18' 20" | | | | 87500 | = 2° 25' 50" | | | S. 4.685 | 445 | T. 835 |
| 87600 | = 24 20 0 | | | | 87600 | = 2 26 0 | | | | 444 | 836 |
| 87700 | = 24 21 40 | | | | 87700 | = 2 26 10 | | | | 444 | 837 |
| 87800 | = 24 23 20 | | | | 87800 | = 2 26 20 | | | | 444 | 837 |
| 87900 | = 24 25 0 | | | | 87900 | = 2 26 30 | | | | 443 | 838 |

| N | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|---------------------|------|------|--------------|------|------|--------|
| 8800 | 94 4483 | 4488 | 4493 | 4497 | 4502 | 4507 | 4512 | 4517 | 4522 | 4527 | |
| 01 | 4532 | 4537 | 4542 | 4547 | 4552 | 4557 | 4562 | 4567 | 4571 | 4576 | |
| 02 | 4581 | 4586 | 4591 | 4596 | 4601 | 4606 | 4611 | 4616 | 4621 | 4626 | |
| 03 | 4631 | 4636 | 4641 | 4646 | 4650 | 4655 | 4660 | 4665 | 4670 | 4675 | |
| 04 | 4680 | 4685 | 4690 | 4695 | 4700 | 4705 | 4710 | 4715 | 4719 | 4724 | |
| 05 | 94 4729 | 4734 | 4739 | 4744 | 4749 | 4754 | 4759 | 4764 | 4769 | 4774 | |
| 06 | 4779 | 4784 | 4789 | 4793 | 4798 | 4803 | 4808 | 4813 | 4818 | 4823 | |
| 07 | 4828 | 4833 | 4838 | 4843 | 4848 | 4853 | 4858 | 4863 | 4867 | 4872 | |
| 08 | 4877 | 4882 | 4887 | 4892 | 4897 | 4902 | 4907 | 4912 | 4917 | 4922 | |
| 09 | 4927 | 4932 | 4936 | 4941 | 4946 | 4951 | 4956 | 4961 | 4966 | 4971 | |
| 8810 | 94 4976 | 4981 | 4986 | 4991 | 4996 | 5001 | 5005 | 5010 | 5015 | 5020 | |
| 11 | 5025 | 5030 | 5035 | 5040 | 5045 | 5050 | 5055 | 5060 | 5065 | 5070 | 5 |
| 12 | 5074 | 5079 | 5084 | 5089 | 5094 | 5099 | 5104 | 5109 | 5114 | 5119 | 1 0.5 |
| 13 | 5124 | 5129 | 5134 | 5139 | 5143 | 5148 | 5153 | 5158 | 5163 | 5168 | 2 1.0 |
| 14 | 5173 | 5178 | 5183 | 5188 | 5193 | 5198 | 5203 | 5208 | 5212 | 5217 | 3 1.5 |
| 15 | 94 5222 | 5227 | 5232 | 5237 | 5242 | 5247 | 5252 | 5257 | 5262 | 5267 | 4 2.0 |
| 16 | 5272 | 5277 | 5281 | 5286 | 5291 | 5296 | 5301 | 5306 | 5311 | 5316 | 5 2.5 |
| 17 | 5321 | 5326 | 5331 | 5336 | 5341 | 5345 | 5350 | 5355 | 5360 | 5365 | 6 3.0 |
| 18 | 5370 | 5375 | 5380 | 5385 | 5390 | 5395 | 5400 | 5405 | 5409 | 5414 | 7 3.5 |
| 19 | 5419 | 5424 | 5429 | 5434 | 5439 | 5444 | 5449 | 5454 | 5459 | 5464 | 8 4.0 |
| 8820 | 94 5469 | 5474 | 5478 | 5483 | 5488 | 5493 | 5498 | 5503 | 5508 | 5513 | 9 4.5 |
| 21 | 5518 | 5523 | 5528 | 5533 | 5538 | 5542 | 5547 | 5552 | 5557 | 5562 | |
| 22 | 5567 | 5572 | 5577 | 5582 | 5587 | 5592 | 5597 | 5602 | 5606 | 5611 | |
| 23 | 5616 | 5621 | 5626 | 5631 | 5636 | 5641 | 5646 | 5651 | 5656 | 5661 | |
| 24 | 5665 | 5670 | 5675 | 5680 | 5685 | 5690 | 5695 | 5700 | 5705 | 5710 | |
| 25 | 94 5715 | 5720 | 5725 | 5729 | 5734 | 5739 | 5744 | 5749 | 5754 | 5759 | |
| 26 | 5764 | 5769 | 5774 | 5779 | 5784 | 5789 | 5793 | 5798 | 5803 | 5808 | |
| 27 | 5813 | 5818 | 5823 | 5828 | 5833 | 5838 | 5843 | 5848 | 5852 | 5857 | |
| 28 | 5862 | 5867 | 5872 | 5877 | 5882 | 5887 | 5892 | 5897 | 5902 | 5907 | |
| 29 | 5912 | 5916 | 5921 | 5926 | 5931 | 5936 | 5941 | 5946 | 5951 | 5956 | |
| 8830 | 94 5961 | 5966 | 5971 | 5975 | 5980 | 5985 | 5990 | 5995 | 6000 | 6005 | |
| 31 | 6010 | 6015 | 6020 | 6025 | 6030 | 6034 | 6039 | 6044 | 6049 | 6054 | 4 |
| 32 | 6059 | 6064 | 6069 | 6074 | 6079 | 6084 | 6089 | 6093 | 6098 | 6103 | 0.4 |
| 33 | 6108 | 6113 | 6118 | 6123 | 6128 | 6133 | 6138 | 6143 | 6148 | 6152 | 2 0.8 |
| 34 | 6157 | 6162 | 6167 | 6172 | 6177 | 6182 | 6187 | 6192 | 6197 | 6202 | 3 1.2 |
| 35 | 94 6207 | 6211 | 6216 | 6221 | 6226 | 6231 | 6236 | 6241 | 6246 | 6251 | 4 1.6 |
| 36 | 6256 | 6261 | 6266 | 6270 | 6275 | 6280 | 6285 | 6290 | 6295 | 6300 | 5 2.0 |
| 37 | 6305 | 6310 | 6315 | 6320 | 6325 | 6329 | 6334 | 6339 | 6344 | 6349 | 6 2.4 |
| 38 | 6354 | 6359 | 6364 | 6369 | 6374 | 6379 | 6383 | 6388 | 6393 | 6398 | 7 2.8 |
| 39 | 6403 | 6408 | 6413 | 6418 | 6423 | 6428 | 6433 | 6438 | 6442 | 6447 | 8 3.2 |
| 8840 | 94 6452 | 6457 | 6462 | 6467 | 6472 | 6477 | 6482 | 6487 | 6492 | 6496 | 9 3.6 |
| 41 | 6501 | 6506 | 6511 | 6516 | 6521 | 6526 | 6531 | 6536 | 6541 | 6546 | |
| 42 | 6551 | 6555 | 6560 | 6565 | 6570 | 6575 | 6580 | 6585 | 6590 | 6595 | |
| 43 | 6600 | 6605 | 6609 | 6614 | 6619 | 6624 | 6629 | 6634 | 6639 | 6644 | |
| 44 | 6649 | 6654 | 6659 | 6663 | 6668 | 6673 | 6678 | 6683 | 6688 | 6693 | |
| 45 | 94 6698 | 6703 | 6708 | 6713 | 6717 | 6722 | 6727 | 6732 | 6737 | 6742 | |
| 46 | 6747 | 6752 | 6757 | 6762 | 6767 | 6771 | 6776 | 6781 | 6786 | 6791 | |
| 47 | 6796 | 6801 | 6806 | 6811 | 6816 | 6821 | 6825 | 6830 | 6835 | 6840 | |
| 48 | 6845 | 6850 | 6855 | 6860 | 6865 | 6870 | 6875 | 6880 | 6885 | 6890 | |
| 49 | 6894 | 6899 | 6904 | 6909 | 6914 | 6919 | 6924 | 6929 | 6934 | 6938 | |
| 8850 | 94 6943 | 6948 | 6953 | 6958 | 6963 | 6968 | 6973 | 6978 | 6983 | 6987 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 88000" = 24° 26' 40" | | | | 88100" = 2° 26' 40" | | | S. 4,685 443 | | | T. 838 |
| | 88100 = 24 28 20 | | | | 8810 = 2 26 50 | | | 443 | | | 839 |
| | 88200 = 24 30 0 | | | | 8820 = 2 27 0 | | | 443 | | | 840 |
| | 88300 = 24 31 40 | | | | 8830 = 2 27 10 | | | 442 | | | 840 |
| | 88400 = 24 33 20 | | | | 8840 = 2 27 20 | | | 442 | | | 841 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|--------------|----------|------|--------|------|-------|
| 8850 | 94 6943 | 6948 | 6953 | 6958 | 6963 | 6968 | 6973 | 6978 | 6983 | 6987 | |
| 51 | 6992 | 6997 | 7002 | 7007 | 7012 | 7017 | 7022 | 7027 | 7032 | 7036 | |
| 52 | 7041 | 7046 | 7051 | 7056 | 7061 | 7066 | 7071 | 7076 | 7081 | 7086 | |
| 53 | 7090 | 7095 | 7100 | 7105 | 7110 | 7115 | 7120 | 7125 | 7130 | 7135 | |
| 54 | 7140 | 7144 | 7149 | 7154 | 7159 | 7164 | 7169 | 7174 | 7179 | 7184 | |
| 55 | 94 7189 | 7193 | 7198 | 7203 | 7208 | 7213 | 7218 | 7223 | 7228 | 7233 | |
| 56 | 7238 | 7243 | 7247 | 7252 | 7257 | 7262 | 7267 | 7272 | 7277 | 7282 | |
| 57 | 7287 | 7292 | 7296 | 7301 | 7306 | 7311 | 7316 | 7321 | 7326 | 7331 | |
| 58 | 7336 | 7341 | 7345 | 7350 | 7355 | 7360 | 7365 | 7370 | 7375 | 7380 | |
| 59 | 7385 | 7390 | 7395 | 7399 | 7404 | 7409 | 7414 | 7419 | 7424 | 7429 | |
| 8860 | 94 7434 | 7439 | 7444 | 7448 | 7453 | 7458 | 7463 | 7468 | 7473 | 7478 | |
| 61 | 7483 | 7488 | 7493 | 7497 | 7502 | 7507 | 7512 | 7517 | 7522 | 7527 | 5 |
| 62 | 7532 | 7537 | 7542 | 7546 | 7551 | 7556 | 7561 | 7566 | 7571 | 7576 | 1 0.5 |
| 63 | 7581 | 7586 | 7591 | 7595 | 7600 | 7605 | 7610 | 7615 | 7620 | 7625 | 2 1.0 |
| 64 | 7630 | 7635 | 7640 | 7644 | 7649 | 7654 | 7659 | 7664 | 7669 | 7674 | 3 1.5 |
| 65 | 94 7679 | 7684 | 7689 | 7693 | 7698 | 7703 | 7708 | 7713 | 7718 | 7723 | 4 2.0 |
| 66 | 7728 | 7733 | 7738 | 7742 | 7747 | 7752 | 7757 | 7762 | 7767 | 7772 | 5 2.5 |
| 67 | 7777 | 7782 | 7787 | 7791 | 7796 | 7801 | 7806 | 7811 | 7816 | 7821 | 6 3.0 |
| 68 | 7826 | 7831 | 7835 | 7840 | 7845 | 7850 | 7855 | 7860 | 7865 | 7870 | 7 3.5 |
| 69 | 7875 | 7880 | 7884 | 7889 | 7894 | 7899 | 7904 | 7909 | 7914 | 7919 | 8 4.0 |
| 8870 | 94 7924 | 7929 | 7933 | 7938 | 7943 | 7948 | 7953 | 7958 | 7963 | 7968 | 9 4.5 |
| 71 | 7973 | 7977 | 7982 | 7987 | 7992 | 7997 | 8002 | 8007 | 8012 | 8017 | |
| 72 | 8022 | 8026 | 8031 | 8036 | 8041 | 8046 | 8051 | 8056 | 8061 | 8066 | |
| 73 | 8070 | 8075 | 8080 | 8085 | 8090 | 8095 | 8100 | 8105 | 8110 | 8115 | |
| 74 | 8119 | 8124 | 8129 | 8134 | 8139 | 8144 | 8149 | 8154 | 8159 | 8163 | |
| 75 | 94 8168 | 8173 | 8178 | 8183 | 8188 | 8193 | 8198 | 8203 | 8208 | 8212 | |
| 76 | 8217 | 8222 | 8227 | 8232 | 8237 | 8242 | 8247 | 8252 | 8256 | 8261 | |
| 77 | 8266 | 8271 | 8276 | 8281 | 8286 | 8291 | 8296 | 8300 | 8305 | 8310 | |
| 78 | 8315 | 8320 | 8325 | 8330 | 8335 | 8340 | 8344 | 8349 | 8354 | 8359 | |
| 79 | 8364 | 8369 | 8374 | 8379 | 8384 | 8389 | 8393 | 8398 | 8403 | 8408 | |
| 8880 | 94 8413 | 8418 | 8423 | 8428 | 8433 | 8437 | 8442 | 8447 | 8452 | 8457 | |
| 81 | 8462 | 8467 | 8472 | 8477 | 8481 | 8486 | 8491 | 8496 | 8501 | 8506 | 4 |
| 82 | 8511 | 8516 | 8521 | 8525 | 8530 | 8535 | 8540 | 8545 | 8550 | 8555 | 1 0.4 |
| 83 | 8560 | 8565 | 8569 | 8574 | 8579 | 8584 | 8589 | 8594 | 8599 | 8604 | 2 0.8 |
| 84 | 8609 | 8613 | 8618 | 8623 | 8628 | 8633 | 8638 | 8643 | 8648 | 8653 | 3 1.2 |
| 85 | 94 8657 | 8662 | 8667 | 8672 | 8677 | 8682 | 8687 | 8692 | 8697 | 8701 | 4 1.6 |
| 86 | 8706 | 8711 | 8716 | 8721 | 8726 | 8731 | 8736 | 8741 | 8745 | 8750 | 5 2.0 |
| 87 | 8755 | 8760 | 8765 | 8770 | 8775 | 8780 | 8785 | 8789 | 8794 | 8799 | 6 2.4 |
| 88 | 8804 | 8809 | 8814 | 8819 | 8824 | 8828 | 8833 | 8838 | 8843 | 8848 | 7 2.8 |
| 89 | 8853 | 8858 | 8863 | 8868 | 8872 | 8877 | 8882 | 8887 | 8892 | 8897 | 8 3.2 |
| 8890 | 94 8902 | 8907 | 8912 | 8916 | 8921 | 8926 | 8931 | 8936 | 8941 | 8946 | 9 3.6 |
| 91 | 8951 | 8955 | 8960 | 8965 | 8970 | 8975 | 8980 | 8985 | 8990 | 8995 | |
| 92 | 8999 | 9004 | 9009 | 9014 | 9019 | 9024 | 9029 | 9034 | 9039 | 9043 | |
| 93 | 9048 | 9053 | 9058 | 9063 | 9068 | 9073 | 9078 | 9082 | 9087 | 9092 | |
| 94 | 9097 | 9102 | 9107 | 9112 | 9117 | 9122 | 9126 | 9131 | 9136 | 9141 | |
| 95 | 94 9146 | 9151 | 9156 | 9161 | 9165 | 9170 | 9175 | 9180 | 9185 | 9190 | |
| 96 | 9195 | 9200 | 9205 | 9209 | 9214 | 9219 | 9224 | 9229 | 9234 | 9239 | |
| 97 | 9244 | 9248 | 9253 | 9258 | 9263 | 9268 | 9273 | 9278 | 9283 | 9288 | |
| 98 | 9292 | 9297 | 9302 | 9307 | 9312 | 9317 | 9322 | 9327 | 9331 | 9336 | |
| 99 | 9341 | 9346 | 9351 | 9356 | 9361 | 9366 | 9370 | 9375 | 9380 | 9385 | |
| 8900 | 94 9390 | 9395 | 9400 | 9405 | 9410 | 9414 | 9419 | 9424 | 9429 | 9434 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 88500 | = 24° 35' 0" | | | | 88500 | = 2° 27' 30" | S. 4,685 | 442 | T. 841 | | |
| 88600 | = 24 36 40 | | | | 88600 | = 2 27 40 | | 441 | 842 | | |
| 88700 | = 24 38 20 | | | | 88700 | = 2 27 50 | | 441 | 843 | | |
| 88800 | = 24 40 0 | | | | 88800 | = 2 28 0 | | 441 | 843 | | |
| 88900 | = 24 41 40 | | | | 88900 | = 2 28 10 | | 440 | 844 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|--------------------|------|------|------|---------------------|------|-------|
| 8900 | 94 9390 | 9395 | 9400 | 9405 | 9410 | 9414 | 9419 | 9424 | 9429 | 9434 | |
| 01 | 9439 | 9444 | 9449 | 9453 | 9458 | 9463 | 9468 | 9473 | 9478 | 9483 | |
| 02 | 9488 | 9492 | 9497 | 9502 | 9507 | 9512 | 9517 | 9522 | 9527 | 9531 | |
| 03 | 9536 | 9541 | 9546 | 9551 | 9556 | 9561 | 9566 | 9571 | 9575 | 9580 | |
| 04 | 9585 | 9590 | 9595 | 9600 | 9605 | 9610 | 9614 | 9619 | 9624 | 9629 | |
| 05 | 94 9634 | 9639 | 9644 | 9649 | 9653 | 9658 | 9663 | 9668 | 9673 | 9678 | |
| 06 | 9683 | 9688 | 9692 | 9697 | 9702 | 9707 | 9712 | 9717 | 9722 | 9727 | |
| 07 | 9731 | 9736 | 9741 | 9746 | 9751 | 9756 | 9761 | 9766 | 9770 | 9775 | |
| 08 | 9780 | 9785 | 9790 | 9795 | 9800 | 9805 | 9809 | 9814 | 9819 | 9824 | |
| 09 | 9829 | 9834 | 9839 | 9844 | 9848 | 9853 | 9858 | 9863 | 9868 | 9873 | |
| 8910 | 94 9878 | 9883 | 9887 | 9892 | 9897 | 9902 | 9907 | 9912 | 9917 | 9922 | |
| 11 | 9926 | 9931 | 9936 | 9941 | 9946 | 9951 | 9956 | 9961 | 9965 | 9970 | 5 |
| 12 | 9975 | 9980 | 9985 | 9990 | 9995 | 0000 | 0004 | 0009 | 0014 | 0019 | 1 0.5 |
| 13 | 95 0024 | 0029 | 0034 | 0039 | 0043 | 0048 | 0053 | 0058 | 0063 | 0068 | 2 1.0 |
| 14 | 0073 | 0078 | 0082 | 0087 | 0092 | 0097 | 0102 | 0107 | 0112 | 0116 | 3 1.5 |
| 15 | 95 0121 | 0126 | 0131 | 0136 | 0141 | 0146 | 0151 | 0155 | 0160 | 0165 | 4 2.0 |
| 16 | 0170 | 0175 | 0180 | 0185 | 0190 | 0194 | 0199 | 0204 | 0209 | 0214 | 5 2.5 |
| 17 | 0219 | 0224 | 0229 | 0233 | 0238 | 0243 | 0248 | 0253 | 0258 | 0263 | 6 3.0 |
| 18 | 0267 | 0272 | 0277 | 0282 | 0287 | 0292 | 0297 | 0302 | 0306 | 0311 | 7 3.5 |
| 19 | 0316 | 0321 | 0326 | 0331 | 0336 | 0341 | 0345 | 0350 | 0355 | 0360 | 8 4.0 |
| 8920 | 95 0365 | 0370 | 0375 | 0379 | 0384 | 0389 | 0394 | 0399 | 0404 | 0409 | 9 4.5 |
| 21 | 0414 | 0418 | 0423 | 0428 | 0433 | 0438 | 0443 | 0448 | 0452 | 0457 | |
| 22 | 0462 | 0467 | 0472 | 0477 | 0482 | 0487 | 0491 | 0496 | 0501 | 0506 | |
| 23 | 0511 | 0516 | 0521 | 0525 | 0530 | 0535 | 0540 | 0545 | 0550 | 0555 | |
| 24 | 0560 | 0564 | 0569 | 0574 | 0579 | 0584 | 0589 | 0594 | 0598 | 0603 | |
| 25 | 95 0608 | 0613 | 0618 | 0623 | 0628 | 0633 | 0637 | 0642 | 0647 | 0652 | |
| 26 | 0657 | 0662 | 0667 | 0671 | 0676 | 0681 | 0686 | 0691 | 0696 | 0701 | |
| 27 | 0706 | 0710 | 0715 | 0720 | 0725 | 0730 | 0735 | 0740 | 0744 | 0749 | |
| 28 | 0754 | 0759 | 0764 | 0769 | 0774 | 0779 | 0783 | 0788 | 0793 | 0798 | |
| 29 | 0803 | 0808 | 0813 | 0817 | 0822 | 0827 | 0832 | 0837 | 0842 | 0847 | |
| 8930 | 95 0851 | 0856 | 0861 | 0866 | 0871 | 0876 | 0881 | 0886 | 0890 | 0895 | |
| 31 | 0900 | 0905 | 0910 | 0915 | 0920 | 0924 | 0929 | 0934 | 0939 | 0944 | 4 |
| 32 | 0949 | 0954 | 0958 | 0963 | 0968 | 0973 | 0978 | 0983 | 0988 | 0992 | 1 0.4 |
| 33 | 0997 | 1002 | 1007 | 1012 | 1017 | 1022 | 1027 | 1031 | 1036 | 1041 | 2 0.8 |
| 34 | 1046 | 1051 | 1056 | 1061 | 1065 | 1070 | 1075 | 1080 | 1085 | 1090 | 3 1.2 |
| 35 | 95 1095 | 1099 | 1104 | 1109 | 1114 | 1119 | 1124 | 1129 | 1133 | 1138 | 4 1.6 |
| 36 | 1143 | 1148 | 1153 | 1158 | 1163 | 1167 | 1172 | 1177 | 1182 | 1187 | 5 2.0 |
| 37 | 1192 | 1197 | 1201 | 1206 | 1211 | 1216 | 1221 | 1226 | 1231 | 1235 | 6 2.4 |
| 38 | 1240 | 1245 | 1250 | 1255 | 1260 | 1265 | 1270 | 1274 | 1279 | 1284 | 7 2.8 |
| 39 | 1289 | 1294 | 1299 | 1304 | 1308 | 1313 | 1318 | 1323 | 1328 | 1333 | 8 3.2 |
| 8940 | 95 1338 | 1342 | 1347 | 1352 | 1357 | 1362 | 1367 | 1372 | 1376 | 1381 | 9 3.6 |
| 41 | 1386 | 1391 | 1396 | 1401 | 1406 | 1410 | 1415 | 1420 | 1425 | 1430 | |
| 42 | 1435 | 1440 | 1444 | 1449 | 1454 | 1459 | 1464 | 1469 | 1474 | 1478 | |
| 43 | 1483 | 1488 | 1493 | 1498 | 1503 | 1508 | 1512 | 1517 | 1522 | 1527 | |
| 44 | 1532 | 1537 | 1542 | 1546 | 1551 | 1556 | 1561 | 1566 | 1571 | 1575 | |
| 45 | 95 1580 | 1585 | 1590 | 1595 | 1600 | 1605 | 1609 | 1614 | 1619 | 1624 | |
| 46 | 1629 | 1634 | 1639 | 1643 | 1648 | 1653 | 1658 | 1663 | 1668 | 1673 | |
| 47 | 1677 | 1682 | 1687 | 1692 | 1697 | 1702 | 1707 | 1711 | 1716 | 1721 | |
| 48 | 1726 | 1731 | 1736 | 1741 | 1745 | 1750 | 1755 | 1760 | 1765 | 1770 | |
| 49 | 1775 | 1779 | 1784 | 1789 | 1794 | 1799 | 1804 | 1808 | 1813 | 1818 | |
| 8950 | 95 1823 | 1828 | 1833 | 1838 | 1842 | 1847 | 1852 | 1857 | 1862 | 1867 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 89000" = 24° 43' 20" | | | | 8900" = 2° 28' 20" | | | | S. 4.685 440 T. 845 | | |
| | 89100 = 24 45 0 | | | | 8910 = 2 28 30 | | | | 440 845 | | |
| | 89200 = 24 46 0 | | | | 8920 = 2 28 40 | | | | 439 846 | | |
| | 89300 = 24 48 20 | | | | 8930 = 2 28 50 | | | | 439 846 | | |
| | 89400 = 24 50 0 | | | | 8940 = 2 29 0 | | | | 439 847 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|---------------------|------|------|---------------------|------|------|------|-------|
| 8950 | 95 1823 | 1828 | 1833 | 1838 | 1842 | 1847 | 1852 | 1857 | 1862 | 1867 | |
| 51 | 1872 | 1876 | 1881 | 1886 | 1891 | 1896 | 1901 | 1906 | 1910 | 1915 | |
| 52 | 1920 | 1925 | 1930 | 1935 | 1939 | 1944 | 1949 | 1954 | 1959 | 1964 | |
| 53 | 1969 | 1973 | 1978 | 1983 | 1988 | 1993 | 1998 | 2003 | 2007 | 2012 | |
| 54 | 2017 | 2022 | 2027 | 2032 | 2036 | 2041 | 2046 | 2051 | 2056 | 2061 | |
| 55 | 95 2066 | 2070 | 2075 | 2080 | 2085 | 2090 | 2095 | 2100 | 2104 | 2109 | |
| 56 | 2114 | 2119 | 2124 | 2129 | 2133 | 2138 | 2143 | 2148 | 2153 | 2158 | |
| 57 | 2163 | 2167 | 2172 | 2177 | 2182 | 2187 | 2192 | 2197 | 2201 | 2206 | |
| 58 | 2211 | 2216 | 2221 | 2226 | 2230 | 2235 | 2240 | 2245 | 2250 | 2255 | |
| 59 | 2260 | 2264 | 2269 | 2274 | 2279 | 2284 | 2289 | 2293 | 2298 | 2303 | |
| 8960 | 95 2308 | 2313 | 2318 | 2323 | 2327 | 2332 | 2337 | 2342 | 2347 | 2352 | |
| 61 | 2356 | 2361 | 2366 | 2371 | 2376 | 2381 | 2386 | 2390 | 2395 | 2400 | 5 |
| 62 | 2405 | 2410 | 2415 | 2419 | 2424 | 2429 | 2434 | 2439 | 2444 | 2449 | 1 0.5 |
| 63 | 2453 | 2458 | 2463 | 2468 | 2473 | 2478 | 2482 | 2487 | 2492 | 2497 | 2 1.0 |
| 64 | 2502 | 2507 | 2512 | 2516 | 2521 | 2526 | 2531 | 2536 | 2541 | 2545 | 3 1.5 |
| 65 | 95 2550 | 2555 | 2560 | 2565 | 2570 | 2575 | 2579 | 2584 | 2589 | 2594 | 4 2.0 |
| 66 | 2599 | 2604 | 2608 | 2613 | 2618 | 2623 | 2628 | 2633 | 2637 | 2642 | 5 2.5 |
| 67 | 2647 | 2652 | 2657 | 2662 | 2667 | 2671 | 2676 | 2681 | 2686 | 2691 | 6 3.0 |
| 68 | 2696 | 2700 | 2705 | 2710 | 2715 | 2720 | 2725 | 2729 | 2734 | 2739 | 7 3.5 |
| 69 | 2744 | 2749 | 2754 | 2759 | 2763 | 2768 | 2773 | 2778 | 2783 | 2788 | 8 4.0 |
| 8970 | 95 2792 | 2797 | 2802 | 2807 | 2812 | 2817 | 2821 | 2826 | 2831 | 2836 | 9 4.5 |
| 71 | 2841 | 2846 | 2851 | 2855 | 2860 | 2865 | 2870 | 2875 | 2880 | 2884 | |
| 72 | 2889 | 2894 | 2899 | 2904 | 2909 | 2913 | 2918 | 2923 | 2928 | 2933 | |
| 73 | 2938 | 2943 | 2947 | 2952 | 2957 | 2962 | 2967 | 2972 | 2976 | 2981 | |
| 74 | 2986 | 2991 | 2996 | 3001 | 3005 | 3010 | 3015 | 3020 | 3025 | 3030 | |
| 75 | 95 3034 | 3039 | 3044 | 3049 | 3054 | 3059 | 3063 | 3068 | 3073 | 3078 | |
| 76 | 3083 | 3088 | 3093 | 3097 | 3102 | 3107 | 3112 | 3117 | 3122 | 3126 | |
| 77 | 3131 | 3136 | 3141 | 3146 | 3151 | 3155 | 3160 | 3165 | 3170 | 3175 | |
| 78 | 3180 | 3184 | 3189 | 3194 | 3199 | 3204 | 3209 | 3213 | 3218 | 3223 | |
| 79 | 3228 | 3233 | 3238 | 3242 | 3247 | 3252 | 3257 | 3262 | 3267 | 3272 | |
| 8980 | 95 3276 | 3281 | 3286 | 3291 | 3296 | 3301 | 3305 | 3310 | 3315 | 3320 | |
| 81 | 3325 | 3330 | 3334 | 3339 | 3344 | 3349 | 3354 | 3359 | 3363 | 3368 | 4 |
| 82 | 3373 | 3378 | 3383 | 3388 | 3392 | 3397 | 3402 | 3407 | 3412 | 3417 | 1 0.4 |
| 83 | 3421 | 3426 | 3431 | 3436 | 3441 | 3446 | 3450 | 3455 | 3460 | 3465 | 2 0.8 |
| 84 | 3470 | 3475 | 3479 | 3484 | 3489 | 3494 | 3499 | 3504 | 3508 | 3513 | 3 1.2 |
| 85 | 95 3518 | 3523 | 3528 | 3533 | 3537 | 3542 | 3547 | 3552 | 3557 | 3562 | 4 1.6 |
| 86 | 3566 | 3571 | 3576 | 3581 | 3586 | 3591 | 3595 | 3600 | 3605 | 3610 | 5 2.0 |
| 87 | 3615 | 3620 | 3624 | 3629 | 3634 | 3639 | 3644 | 3649 | 3653 | 3658 | 6 2.4 |
| 88 | 3663 | 3668 | 3673 | 3678 | 3682 | 3687 | 3692 | 3697 | 3702 | 3707 | 7 2.8 |
| 89 | 3711 | 3716 | 3721 | 3726 | 3731 | 3736 | 3740 | 3745 | 3750 | 3755 | 8 3.2 |
| 8990 | 95 3760 | 3765 | 3769 | 3774 | 3779 | 3784 | 3789 | 3794 | 3798 | 3803 | 9 3.6 |
| 91 | 3808 | 3813 | 3818 | 3822 | 3827 | 3832 | 3837 | 3842 | 3847 | 3851 | |
| 92 | 3856 | 3861 | 3866 | 3871 | 3876 | 3880 | 3885 | 3890 | 3895 | 3900 | |
| 93 | 3905 | 3909 | 3914 | 3919 | 3924 | 3929 | 3934 | 3938 | 3943 | 3948 | |
| 94 | 3953 | 3958 | 3963 | 3967 | 3972 | 3977 | 3982 | 3987 | 3992 | 3996 | |
| 95 | 95 4001 | 4006 | 4011 | 4016 | 4020 | 4025 | 4030 | 4035 | 4040 | 4045 | |
| 96 | 4049 | 4054 | 4059 | 4064 | 4069 | 4074 | 4078 | 4083 | 4088 | 4093 | |
| 97 | 4098 | 4103 | 4107 | 4112 | 4117 | 4122 | 4127 | 4132 | 4136 | 4141 | |
| 98 | 4146 | 4151 | 4156 | 4160 | 4165 | 4170 | 4175 | 4180 | 4185 | 4189 | |
| 99 | 4194 | 4199 | 4204 | 4209 | 4214 | 4218 | 4223 | 4228 | 4233 | 4238 | |
| 9000 | 95 4243 | 4247 | 4252 | 4257 | 4262 | 4267 | 4271 | 4276 | 4281 | 4286 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 89500 | = 24° 51' 40" | | | 89500' = 2° 29' 10" | | | S. 4,685 439 T. 848 | | | | |
| 89600 | = 24 53 20 | | | 89600 = 2 29 20 | | | 438 848 | | | | |
| 89700 | = 24 55 0 | | | 89700 = 2 29 30 | | | 438 849 | | | | |
| 89800 | = 24 56 40 | | | 89800 = 2 29 40 | | | 438 849 | | | | |
| 89900 | = 24 58 20 | | | 89900 = 2 29 50 | | | 437 850 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-------------|------|------|-------------------|------|------|----------|------|------|------|--------|
| 9000 | 95 4243 | 4247 | 4252 | 4257 | 4262 | 4267 | 4271 | 4276 | 4281 | 4286 | |
| 01 | 4291 | 4296 | 4300 | 4305 | 4310 | 4315 | 4320 | 4325 | 4329 | 4334 | |
| 02 | 4339 | 4344 | 4349 | 4353 | 4358 | 4363 | 4368 | 4373 | 4378 | 4382 | |
| 03 | 4387 | 4392 | 4397 | 4402 | 4407 | 4411 | 4416 | 4421 | 4426 | 4431 | |
| 04 | 4435 | 4440 | 4445 | 4450 | 4455 | 4460 | 4464 | 4469 | 4474 | 4479 | |
| 05 | 95 4484 | 4489 | 4493 | 4498 | 4503 | 4508 | 4513 | 4517 | 4522 | 4527 | |
| 06 | 4532 | 4537 | 4542 | 4546 | 4551 | 4556 | 4561 | 4566 | 4571 | 4575 | |
| 07 | 4580 | 4585 | 4590 | 4595 | 4599 | 4604 | 4609 | 4614 | 4619 | 4624 | |
| 08 | 4628 | 4633 | 4638 | 4643 | 4648 | 4652 | 4657 | 4662 | 4667 | 4672 | |
| 09 | 4677 | 4681 | 4686 | 4691 | 4696 | 4701 | 4706 | 4710 | 4715 | 4720 | |
| 9010 | 95 4725 | 4730 | 4734 | 4739 | 4744 | 4749 | 4754 | 4759 | 4763 | 4768 | |
| 11 | 4773 | 4778 | 4783 | 4787 | 4792 | 4797 | 4802 | 4807 | 4812 | 4816 | 5 |
| 12 | 4821 | 4826 | 4831 | 4836 | 4840 | 4845 | 4850 | 4855 | 4860 | 4865 | 1 0.5 |
| 13 | 4869 | 4874 | 4879 | 4884 | 4889 | 4893 | 4898 | 4903 | 4908 | 4913 | 2 1.0 |
| 14 | 4918 | 4922 | 4927 | 4932 | 4937 | 4942 | 4946 | 4951 | 4956 | 4961 | 3 1.5 |
| 15 | 95 4966 | 4971 | 4975 | 4980 | 4985 | 4990 | 4995 | 4999 | 5004 | 5009 | 4 2.0 |
| 16 | 5014 | 5019 | 5024 | 5028 | 5033 | 5038 | 5043 | 5048 | 5052 | 5057 | 5 2.5 |
| 17 | 5062 | 5067 | 5072 | 5077 | 5081 | 5086 | 5091 | 5096 | 5101 | 5105 | 6 3.0 |
| 18 | 5110 | 5115 | 5120 | 5125 | 5129 | 5134 | 5139 | 5144 | 5149 | 5154 | 7 3.5 |
| 19 | 5158 | 5163 | 5168 | 5173 | 5178 | 5182 | 5187 | 5192 | 5197 | 5202 | 8 4.0 |
| 9020 | 95 5207 | 5211 | 5216 | 5221 | 5226 | 5231 | 5235 | 5240 | 5245 | 5250 | 9 4.5 |
| 21 | 5255 | 5259 | 5264 | 5269 | 5274 | 5279 | 5284 | 5288 | 5293 | 5298 | |
| 22 | 5303 | 5308 | 5312 | 5317 | 5322 | 5327 | 5332 | 5337 | 5341 | 5346 | |
| 23 | 5351 | 5356 | 5361 | 5365 | 5370 | 5375 | 5380 | 5385 | 5389 | 5394 | |
| 24 | 5399 | 5404 | 5409 | 5414 | 5418 | 5423 | 5428 | 5433 | 5438 | 5442 | |
| 25 | 95 5447 | 5452 | 5457 | 5462 | 5466 | 5471 | 5476 | 5481 | 5486 | 5491 | |
| 26 | 5495 | 5500 | 5505 | 5510 | 5515 | 5519 | 5524 | 5529 | 5534 | 5539 | |
| 27 | 5543 | 5548 | 5553 | 5558 | 5563 | 5567 | 5572 | 5577 | 5582 | 5587 | |
| 28 | 5592 | 5596 | 5601 | 5606 | 5611 | 5616 | 5620 | 5625 | 5630 | 5635 | |
| 29 | 5640 | 5644 | 5649 | 5654 | 5659 | 5664 | 5669 | 5673 | 5678 | 5683 | |
| 9030 | 95 5688 | 5693 | 5697 | 5702 | 5707 | 5712 | 5717 | 5721 | 5726 | 5731 | |
| 31 | 5736 | 5741 | 5745 | 5750 | 5755 | 5760 | 5765 | 5770 | 5774 | 5779 | 4 |
| 32 | 5784 | 5789 | 5794 | 5798 | 5803 | 5808 | 5813 | 5818 | 5822 | 5827 | 1 0.4 |
| 33 | 5832 | 5837 | 5842 | 5846 | 5851 | 5856 | 5861 | 5866 | 5870 | 5875 | 2 0.8 |
| 34 | 5880 | 5885 | 5890 | 5895 | 5899 | 5904 | 5909 | 5914 | 5919 | 5923 | 3 1.2 |
| 35 | 95 5928 | 5933 | 5938 | 5943 | 5947 | 5952 | 5957 | 5962 | 5967 | 5971 | 4 1.6 |
| 36 | 5976 | 5981 | 5986 | 5991 | 5995 | 6000 | 6005 | 6010 | 6015 | 6019 | 5 2.0 |
| 37 | 6024 | 6029 | 6034 | 6039 | 6044 | 6048 | 6053 | 6058 | 6063 | 6068 | 6 2.4 |
| 38 | 6072 | 6077 | 6082 | 6087 | 6092 | 6096 | 6101 | 6106 | 6111 | 6116 | 7 2.8 |
| 39 | 6120 | 6125 | 6130 | 6135 | 6140 | 6144 | 6149 | 6154 | 6159 | 6164 | 8 3.2 |
| 9040 | 95 6168 | 6173 | 6178 | 6183 | 6188 | 6192 | 6197 | 6202 | 6207 | 6212 | 9 3.6 |
| 41 | 6216 | 6221 | 6226 | 6231 | 6236 | 6240 | 6245 | 6250 | 6255 | 6260 | |
| 42 | 6265 | 6269 | 6274 | 6279 | 6284 | 6289 | 6293 | 6298 | 6303 | 6308 | |
| 43 | 6313 | 6317 | 6322 | 6327 | 6332 | 6337 | 6341 | 6346 | 6351 | 6356 | |
| 44 | 6361 | 6365 | 6370 | 6375 | 6380 | 6385 | 6389 | 6394 | 6399 | 6404 | |
| 45 | 95 6409 | 6413 | 6418 | 6423 | 6428 | 6433 | 6437 | 6442 | 6447 | 6452 | |
| 46 | 6457 | 6461 | 6466 | 6471 | 6476 | 6481 | 6485 | 6490 | 6495 | 6500 | |
| 47 | 6505 | 6509 | 6514 | 6519 | 6524 | 6529 | 6533 | 6538 | 6543 | 6548 | |
| 48 | 6553 | 6557 | 6562 | 6567 | 6572 | 6577 | 6581 | 6586 | 6591 | 6596 | |
| 49 | 6601 | 6605 | 6610 | 6615 | 6620 | 6625 | 6629 | 6634 | 6639 | 6644 | |
| 9050 | 95 6649 | 6653 | 6658 | 6663 | 6668 | 6673 | 6677 | 6682 | 6687 | 6692 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 90000 | = 25° 0' 0" | | | 9000" = 2° 30' 0" | | | S. 4,685 | | | 437 | T. 851 |
| 90100 | = 25 1 40 | | | 9010 = 2 30 10 | | | | | | 437 | 851 |
| 90200 | = 25 3 20 | | | 9020 = 2 30 20 | | | | | | 436 | 852 |
| 90300 | = 25 5 0 | | | 9030 = 2 30 30 | | | | | | 436 | 853 |
| 90400 | = 25 6 40 | | | 9040 = 2 30 40 | | | | | | 436 | 853 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|------------|------|------|------|--------|------------|----------|------|--------|------|-------|
| 9050 | 95 6649 | 6653 | 6658 | 6663 | 6668 | 6673 | 6677 | 6682 | 6687 | 6692 | |
| 51 | 6697 | 6701 | 6706 | 6711 | 6716 | 6721 | 6725 | 6730 | 6735 | 6740 | |
| 52 | 6745 | 6749 | 6754 | 6759 | 6764 | 6769 | 6773 | 6778 | 6783 | 6788 | |
| 53 | 6793 | 6797 | 6802 | 6807 | 6812 | 6817 | 6821 | 6826 | 6831 | 6836 | |
| 54 | 6840 | 6845 | 6850 | 6855 | 6860 | 6864 | 6869 | 6874 | 6879 | 6884 | |
| 55 | 95 6888 | 6893 | 6898 | 6903 | 6908 | 6912 | 6917 | 6922 | 6927 | 6932 | |
| 56 | 6936 | 6941 | 6946 | 6951 | 6956 | 6960 | 6965 | 6970 | 6975 | 6980 | |
| 57 | 6984 | 6989 | 6994 | 6999 | 7004 | 7008 | 7013 | 7018 | 7023 | 7028 | |
| 58 | 7032 | 7037 | 7042 | 7047 | 7051 | 7056 | 7061 | 7066 | 7071 | 7075 | |
| 59 | 7080 | 7085 | 7090 | 7095 | 7099 | 7104 | 7109 | 7114 | 7119 | 7123 | |
| 9060 | 95 7128 | 7133 | 7138 | 7143 | 7147 | 7152 | 7157 | 7162 | 7167 | 7171 | |
| 61 | 7176 | 7181 | 7186 | 7191 | 7195 | 7200 | 7205 | 7210 | 7214 | 7219 | 5 |
| 62 | 7224 | 7229 | 7234 | 7238 | 7243 | 7248 | 7253 | 7258 | 7262 | 7267 | 1 0.5 |
| 63 | 7272 | 7277 | 7282 | 7286 | 7291 | 7296 | 7301 | 7306 | 7310 | 7315 | 2 1.0 |
| 64 | 7320 | 7325 | 7329 | 7334 | 7339 | 7344 | 7349 | 7353 | 7358 | 7363 | 3 1.5 |
| 65 | 95 7368 | 7373 | 7377 | 7382 | 7387 | 7392 | 7397 | 7401 | 7406 | 7411 | 4 2.0 |
| 66 | 7416 | 7421 | 7425 | 7430 | 7435 | 7440 | 7444 | 7449 | 7454 | 7459 | 5 2.5 |
| 67 | 7464 | 7468 | 7473 | 7478 | 7483 | 7488 | 7492 | 7497 | 7502 | 7507 | 6 3.0 |
| 68 | 7512 | 7516 | 7521 | 7526 | 7531 | 7535 | 7540 | 7545 | 7550 | 7555 | 7 3.5 |
| 69 | 7559 | 7564 | 7569 | 7574 | 7579 | 7583 | 7588 | 7593 | 7598 | 7602 | 8 4.0 |
| 9070 | 95 7607 | 7612 | 7617 | 7622 | 7626 | 7631 | 7636 | 7641 | 7646 | 7650 | 9 4.5 |
| 71 | 7655 | 7660 | 7665 | 7670 | 7674 | 7679 | 7684 | 7689 | 7693 | 7698 | |
| 72 | 7703 | 7708 | 7713 | 7717 | 7722 | 7727 | 7732 | 7737 | 7741 | 7746 | |
| 73 | 7751 | 7756 | 7760 | 7765 | 7770 | 7775 | 7780 | 7784 | 7789 | 7794 | |
| 74 | 7799 | 7804 | 7808 | 7813 | 7818 | 7823 | 7827 | 7832 | 7837 | 7842 | |
| 75 | 95 7847 | 7851 | 7856 | 7861 | 7866 | 7871 | 7875 | 7880 | 7885 | 7890 | |
| 76 | 7894 | 7899 | 7904 | 7909 | 7914 | 7918 | 7923 | 7928 | 7933 | 7938 | |
| 77 | 7942 | 7947 | 7952 | 7957 | 7961 | 7966 | 7971 | 7976 | 7981 | 7985 | |
| 78 | 7990 | 7995 | 8000 | 8005 | 8009 | 8014 | 8019 | 8024 | 8028 | 8033 | |
| 79 | 8038 | 8043 | 8048 | 8052 | 8057 | 8062 | 8067 | 8071 | 8076 | 8081 | |
| 9080 | 95 8086 | 8091 | 8095 | 8100 | 8105 | 8110 | 8115 | 8119 | 8124 | 8129 | |
| 81 | 8134 | 8138 | 8143 | 8148 | 8153 | 8158 | 8162 | 8167 | 8172 | 8177 | 4 |
| 82 | 8181 | 8186 | 8191 | 8196 | 8201 | 8205 | 8210 | 8215 | 8220 | 8225 | 1 0.4 |
| 83 | 8229 | 8234 | 8239 | 8244 | 8248 | 8253 | 8258 | 8263 | 8268 | 8272 | 2 0.8 |
| 84 | 8277 | 8282 | 8287 | 8291 | 8296 | 8301 | 8306 | 8311 | 8315 | 8320 | 3 1.2 |
| 85 | 95 8325 | 8330 | 8334 | 8339 | 8344 | 8349 | 8354 | 8358 | 8363 | 8368 | 4 1.6 |
| 86 | 8373 | 8378 | 8382 | 8387 | 8392 | 8397 | 8401 | 8406 | 8411 | 8416 | 5 2.0 |
| 87 | 8421 | 8425 | 8430 | 8435 | 8440 | 8444 | 8449 | 8454 | 8459 | 8464 | 6 2.4 |
| 88 | 8468 | 8473 | 8478 | 8483 | 8487 | 8492 | 8497 | 8502 | 8507 | 8511 | 7 2.8 |
| 89 | 8516 | 8521 | 8526 | 8530 | 8535 | 8540 | 8545 | 8550 | 8554 | 8559 | 8 3.2 |
| 9090 | 95 8564 | 8569 | 8573 | 8578 | 8583 | 8588 | 8593 | 8597 | 8602 | 8607 | 9 3.6 |
| 91 | 8612 | 8616 | 8621 | 8626 | 8631 | 8636 | 8640 | 8645 | 8650 | 8655 | |
| 92 | 8659 | 8664 | 8669 | 8674 | 8679 | 8683 | 8688 | 8693 | 8698 | 8702 | |
| 93 | 8707 | 8712 | 8717 | 8722 | 8726 | 8731 | 8736 | 8741 | 8745 | 8750 | |
| 94 | 8755 | 8760 | 8765 | 8769 | 8774 | 8779 | 8784 | 8788 | 8793 | 8798 | |
| 95 | 95 8803 | 8807 | 8812 | 8817 | 8822 | 8827 | 8831 | 8836 | 8841 | 8846 | |
| 96 | 8850 | 8855 | 8860 | 8865 | 8870 | 8874 | 8879 | 8884 | 8889 | 8893 | |
| 97 | 8898 | 8903 | 8908 | 8913 | 8917 | 8922 | 8927 | 8932 | 8936 | 8941 | |
| 98 | 8946 | 8951 | 8955 | 8960 | 8965 | 8970 | 8975 | 8979 | 8984 | 8989 | |
| 99 | 8994 | 8998 | 9003 | 9008 | 9013 | 9018 | 9022 | 9027 | 9032 | 9037 | |
| 9100 | 95 9041 | 9046 | 9051 | 9056 | 9060 | 9065 | 9070 | 9075 | 9080 | 9084 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 90500" | 25° 8' 20" | | | | 90500" | 2° 30' 50" | S. 4.685 | 436 | T. 854 | | |
| 90600 | 25 10 0 | | | | 90600 | 2 31 0 | | 435 | 854 | | |
| 90700 | 25 11 40 | | | | 90700 | 2 31 10 | | 435 | 855 | | |
| 90800 | 25 13 20 | | | | 90800 | 2 31 20 | | 435 | 856 | | |
| 90900 | 25 15 0 | | | | 90900 | 2 31 30 | | 434 | 856 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|----------|------|--------|------|-------|
| 9100 | 95 9041 | 9046 | 9051 | 9056 | 9060 | 9065 | 9070 | 9075 | 9080 | 9084 | |
| 01 | 9089 | 9094 | 9099 | 9103 | 9108 | 9113 | 9118 | 9123 | 9127 | 9132 | |
| 02 | 9137 | 9142 | 9146 | 9151 | 9156 | 9161 | 9165 | 9170 | 9175 | 9180 | |
| 03 | 9185 | 9189 | 9194 | 9199 | 9204 | 9208 | 9213 | 9218 | 9223 | 9227 | |
| 04 | 9232 | 9237 | 9242 | 9247 | 9251 | 9256 | 9261 | 9266 | 9270 | 9275 | |
| 05 | 95 9280 | 9285 | 9289 | 9294 | 9299 | 9304 | 9309 | 9313 | 9318 | 9323 | |
| 06 | 9328 | 9332 | 9337 | 9342 | 9347 | 9351 | 9356 | 9361 | 9366 | 9371 | |
| 07 | 9375 | 9380 | 9385 | 9390 | 9394 | 9399 | 9404 | 9409 | 9413 | 9418 | |
| 08 | 9423 | 9428 | 9433 | 9437 | 9442 | 9447 | 9452 | 9456 | 9461 | 9466 | |
| 09 | 9471 | 9475 | 9480 | 9485 | 9490 | 9495 | 9499 | 9504 | 9509 | 9514 | |
| 9110 | 95 9518 | 9523 | 9528 | 9533 | 9537 | 9542 | 9547 | 9552 | 9557 | 9561 | |
| 11 | 9566 | 9571 | 9576 | 9580 | 9585 | 9590 | 9595 | 9599 | 9604 | 9609 | 5 |
| 12 | 9614 | 9618 | 9623 | 9628 | 9633 | 9638 | 9642 | 9647 | 9652 | 9657 | 1 0.5 |
| 13 | 9661 | 9666 | 9671 | 9676 | 9680 | 9685 | 9690 | 9695 | 9699 | 9704 | 2 1.0 |
| 14 | 9709 | 9714 | 9719 | 9723 | 9728 | 9733 | 9738 | 9742 | 9747 | 9752 | 3 1.5 |
| 15 | 95 9757 | 9761 | 9766 | 9771 | 9776 | 9780 | 9785 | 9790 | 9795 | 9800 | 4 2.0 |
| 16 | 9804 | 9809 | 9814 | 9819 | 9823 | 9828 | 9833 | 9838 | 9842 | 9847 | 5 2.5 |
| 17 | 9852 | 9857 | 9861 | 9866 | 9871 | 9876 | 9881 | 9885 | 9890 | 9895 | 6 3.0 |
| 18 | 9900 | 9904 | 9909 | 9914 | 9919 | 9923 | 9928 | 9933 | 9938 | 9942 | 7 3.5 |
| 19 | 9947 | 9952 | 9957 | 9962 | 9966 | 9971 | 9976 | 9981 | 9985 | 9990 | 8 4.0 |
| 9120 | 95 9995 | 0000 | 0004 | 0009 | 0014 | 0019 | 0023 | 0028 | 0033 | 0038 | 9 4.5 |
| 21 | 96 0042 | 0047 | 0052 | 0057 | 0062 | 0066 | 0071 | 0076 | 0081 | 0085 | |
| 22 | 0090 | 0095 | 0100 | 0104 | 0109 | 0114 | 0119 | 0123 | 0128 | 0133 | |
| 23 | 0138 | 0142 | 0147 | 0152 | 0157 | 0161 | 0166 | 0171 | 0176 | 0181 | |
| 24 | 0185 | 0190 | 0195 | 0200 | 0204 | 0209 | 0214 | 0219 | 0223 | 0228 | |
| 25 | 96 0233 | 0238 | 0242 | 0247 | 0252 | 0257 | 0261 | 0266 | 0271 | 0276 | |
| 26 | 0280 | 0285 | 0290 | 0295 | 0299 | 0304 | 0309 | 0314 | 0319 | 0323 | |
| 27 | 0328 | 0333 | 0338 | 0342 | 0347 | 0352 | 0357 | 0361 | 0366 | 0371 | |
| 28 | 0376 | 0380 | 0385 | 0390 | 0395 | 0399 | 0404 | 0409 | 0414 | 0418 | |
| 29 | 0423 | 0428 | 0433 | 0437 | 0442 | 0447 | 0452 | 0457 | 0461 | 0466 | |
| 9130 | 96 0471 | 0476 | 0480 | 0485 | 0490 | 0495 | 0499 | 0504 | 0509 | 0514 | |
| 31 | 0518 | 0523 | 0528 | 0533 | 0537 | 0542 | 0547 | 0552 | 0556 | 0561 | 4 |
| 32 | 0566 | 0571 | 0575 | 0580 | 0585 | 0590 | 0594 | 0599 | 0604 | 0609 | 1 0.4 |
| 33 | 0613 | 0618 | 0623 | 0628 | 0632 | 0637 | 0642 | 0647 | 0651 | 0656 | 2 0.8 |
| 34 | 0661 | 0666 | 0671 | 0675 | 0680 | 0685 | 0690 | 0694 | 0699 | 0704 | 3 1.2 |
| 35 | 96 0709 | 0713 | 0718 | 0723 | 0728 | 0732 | 0737 | 0742 | 0747 | 0751 | 4 1.6 |
| 36 | 0756 | 0761 | 0766 | 0770 | 0775 | 0780 | 0785 | 0789 | 0794 | 0799 | 5 2.0 |
| 37 | 0804 | 0808 | 0813 | 0818 | 0823 | 0827 | 0832 | 0837 | 0842 | 0846 | 6 2.4 |
| 38 | 0851 | 0856 | 0861 | 0865 | 0870 | 0875 | 0880 | 0884 | 0889 | 0894 | 7 2.8 |
| 39 | 0899 | 0903 | 0908 | 0913 | 0918 | 0922 | 0927 | 0932 | 0937 | 0941 | 8 3.2 |
| 9140 | 96 0946 | 0951 | 0956 | 0960 | 0965 | 0970 | 0975 | 0979 | 0984 | 0989 | 9 3.6 |
| 41 | 0994 | 0998 | 1003 | 1008 | 1013 | 1017 | 1022 | 1027 | 1032 | 1036 | |
| 42 | 1041 | 1046 | 1051 | 1055 | 1060 | 1065 | 1070 | 1074 | 1079 | 1084 | |
| 43 | 1089 | 1093 | 1098 | 1103 | 1108 | 1112 | 1117 | 1122 | 1127 | 1131 | |
| 44 | 1136 | 1141 | 1146 | 1150 | 1155 | 1160 | 1165 | 1169 | 1174 | 1179 | |
| 45 | 96 1184 | 1188 | 1193 | 1198 | 1203 | 1207 | 1212 | 1217 | 1222 | 1226 | |
| 46 | 1231 | 1236 | 1241 | 1245 | 1250 | 1255 | 1260 | 1264 | 1269 | 1274 | |
| 47 | 1279 | 1283 | 1288 | 1293 | 1298 | 1302 | 1307 | 1312 | 1317 | 1321 | |
| 48 | 1326 | 1331 | 1336 | 1340 | 1345 | 1350 | 1355 | 1359 | 1364 | 1369 | |
| 49 | 1374 | 1378 | 1383 | 1388 | 1393 | 1397 | 1402 | 1407 | 1412 | 1416 | |
| 9150 | 96 1421 | 1426 | 1431 | 1435 | 1440 | 1445 | 1450 | 1454 | 1459 | 1464 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 91000 | = 25° 16' 40" | | | | 91000 | = 2° 31' 40" | S. 4,685 | 434 | T. 857 | | |
| 91100 | = 25 18 20 | | | | 91100 | = 2 31 50 | | 434 | 857 | | |
| 91200 | = 25 20 0 | | | | 91200 | = 2 32 0 | | 433 | 858 | | |
| 91300 | = 25 21 40 | | | | 91300 | = 2 32 10 | | 433 | 859 | | |
| 91400 | = 25 23 20 | | | | 91400 | = 2 32 20 | | 433 | 859 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|--------------|------|------|----------|------|--------|-------|
| 9150 | 96 1421 | 1426 | 1431 | 1435 | 1440 | 1445 | 1450 | 1454 | 1459 | 1464 | |
| 51 | 1469 | 1473 | 1478 | 1483 | 1488 | 1492 | 1497 | 1502 | 1507 | 1511 | |
| 52 | 1516 | 1521 | 1526 | 1530 | 1535 | 1540 | 1544 | 1549 | 1554 | 1559 | |
| 53 | 1563 | 1568 | 1573 | 1578 | 1582 | 1587 | 1592 | 1597 | 1601 | 1606 | |
| 54 | 1611 | 1616 | 1620 | 1625 | 1630 | 1635 | 1639 | 1644 | 1649 | 1654 | |
| 55 | 96 1658 | 1663 | 1668 | 1673 | 1677 | 1682 | 1687 | 1692 | 1696 | 1701 | |
| 56 | 1706 | 1711 | 1715 | 1720 | 1725 | 1729 | 1734 | 1739 | 1744 | 1748 | |
| 57 | 1753 | 1758 | 1763 | 1767 | 1772 | 1777 | 1782 | 1786 | 1791 | 1796 | |
| 58 | 1801 | 1805 | 1810 | 1815 | 1820 | 1824 | 1829 | 1834 | 1839 | 1843 | |
| 59 | 1848 | 1853 | 1858 | 1862 | 1867 | 1872 | 1877 | 1881 | 1886 | 1891 | |
| 9160 | 96 1895 | 1900 | 1905 | 1910 | 1914 | 1919 | 1924 | 1929 | 1933 | 1938 | |
| 61 | 1943 | 1948 | 1952 | 1957 | 1962 | 1967 | 1971 | 1976 | 1981 | 1986 | 5 |
| 62 | 1990 | 1995 | 2000 | 2005 | 2009 | 2014 | 2019 | 2023 | 2028 | 2033 | 1 0.5 |
| 63 | 2038 | 2042 | 2047 | 2052 | 2057 | 2061 | 2066 | 2071 | 2076 | 2080 | 2 1.0 |
| 64 | 2085 | 2090 | 2095 | 2099 | 2104 | 2109 | 2114 | 2118 | 2123 | 2128 | 3 1.5 |
| 65 | 96 2132 | 2137 | 2142 | 2147 | 2151 | 2156 | 2161 | 2166 | 2170 | 2175 | 4 2.0 |
| 66 | 2180 | 2185 | 2189 | 2194 | 2199 | 2204 | 2208 | 2213 | 2218 | 2222 | 5 2.5 |
| 67 | 2227 | 2232 | 2237 | 2241 | 2246 | 2251 | 2256 | 2260 | 2265 | 2270 | 6 3.0 |
| 68 | 2275 | 2279 | 2284 | 2289 | 2294 | 2298 | 2303 | 2308 | 2312 | 2317 | 7 3.5 |
| 69 | 2322 | 2327 | 2331 | 2336 | 2341 | 2346 | 2350 | 2355 | 2360 | 2365 | 8 4.0 |
| 9170 | 96 2369 | 2374 | 2379 | 2384 | 2388 | 2393 | 2398 | 2402 | 2407 | 2412 | 9 4.5 |
| 71 | 2417 | 2421 | 2426 | 2431 | 2436 | 2440 | 2445 | 2450 | 2455 | 2459 | |
| 72 | 2464 | 2469 | 2474 | 2478 | 2483 | 2488 | 2492 | 2497 | 2502 | 2507 | |
| 73 | 2511 | 2516 | 2521 | 2526 | 2530 | 2535 | 2540 | 2545 | 2549 | 2554 | |
| 74 | 2559 | 2563 | 2568 | 2573 | 2578 | 2582 | 2587 | 2592 | 2597 | 2601 | |
| 75 | 96 2606 | 2611 | 2616 | 2620 | 2625 | 2630 | 2634 | 2639 | 2644 | 2649 | |
| 76 | 2653 | 2658 | 2663 | 2668 | 2672 | 2677 | 2682 | 2687 | 2691 | 2696 | |
| 77 | 2701 | 2705 | 2710 | 2715 | 2720 | 2724 | 2729 | 2734 | 2739 | 2743 | |
| 78 | 2748 | 2753 | 2758 | 2762 | 2767 | 2772 | 2776 | 2781 | 2786 | 2791 | |
| 79 | 2795 | 2800 | 2805 | 2810 | 2814 | 2819 | 2824 | 2828 | 2833 | 2838 | |
| 9180 | 96 2843 | 2847 | 2852 | 2857 | 2862 | 2866 | 2871 | 2876 | 2881 | 2885 | |
| 81 | 2890 | 2895 | 2899 | 2904 | 2909 | 2914 | 2918 | 2923 | 2928 | 2933 | 4 |
| 82 | 2937 | 2942 | 2947 | 2951 | 2956 | 2961 | 2966 | 2970 | 2975 | 2980 | 1 0.4 |
| 83 | 2985 | 2989 | 2994 | 2999 | 3004 | 3008 | 3013 | 3018 | 3022 | 3027 | 2 0.8 |
| 84 | 3032 | 3037 | 3041 | 3046 | 3051 | 3056 | 3060 | 3065 | 3070 | 3074 | 3 1.2 |
| 85 | 96 3079 | 3084 | 3089 | 3093 | 3098 | 3103 | 3108 | 3112 | 3117 | 3122 | 4 1.6 |
| 86 | 3126 | 3131 | 3136 | 3141 | 3145 | 3150 | 3155 | 3160 | 3164 | 3169 | 5 2.0 |
| 87 | 3174 | 3178 | 3183 | 3188 | 3193 | 3197 | 3202 | 3207 | 3212 | 3216 | 6 2.4 |
| 88 | 3221 | 3226 | 3230 | 3235 | 3240 | 3245 | 3249 | 3254 | 3259 | 3264 | 7 2.8 |
| 89 | 3268 | 3273 | 3278 | 3282 | 3287 | 3292 | 3297 | 3301 | 3306 | 3311 | 8 3.2 |
| 9190 | 96 3316 | 3320 | 3325 | 3330 | 3334 | 3339 | 3344 | 3349 | 3353 | 3358 | 9 3.6 |
| 91 | 3363 | 3367 | 3372 | 3377 | 3382 | 3386 | 3391 | 3396 | 3401 | 3405 | |
| 92 | 3410 | 3415 | 3419 | 3424 | 3429 | 3434 | 3438 | 3443 | 3448 | 3453 | |
| 93 | 3457 | 3462 | 3467 | 3471 | 3476 | 3481 | 3486 | 3490 | 3495 | 3500 | |
| 94 | 3504 | 3509 | 3514 | 3519 | 3523 | 3528 | 3533 | 3538 | 3542 | 3547 | |
| 95 | 96 3552 | 3556 | 3561 | 3566 | 3571 | 3575 | 3580 | 3585 | 3590 | 3594 | |
| 96 | 3599 | 3604 | 3608 | 3613 | 3618 | 3623 | 3627 | 3632 | 3637 | 3641 | |
| 97 | 3646 | 3651 | 3656 | 3660 | 3665 | 3670 | 3675 | 3679 | 3684 | 3689 | |
| 98 | 3693 | 3698 | 3703 | 3708 | 3712 | 3717 | 3722 | 3726 | 3731 | 3736 | |
| 99 | 3741 | 3745 | 3750 | 3755 | 3760 | 3764 | 3769 | 3774 | 3778 | 3783 | |
| 9200 | 96 3788 | 3793 | 3797 | 3802 | 3807 | 3811 | 3816 | 3821 | 3826 | 3830 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 91500 | = 25° 25' 0" | | | 9150 | = 2° 32' 30" | | | S. 4.685 | 432 | T. 860 | |
| 91600 | = 25 26 40 | | | 9160 | = 2 32 40 | | | | 432 | 860 | |
| 91700 | = 25 28 20 | | | 9170 | = 2 32 50 | | | | 432 | 861 | |
| 91800 | = 25 30 0 | | | 9180 | = 2 33 0 | | | | 431 | 862 | |
| 91900 | = 25 31 40 | | | 9190 | = 2 33 10 | | | | 431 | 862 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|------|--------------------|------|------|----------|------|--------|
| 01 | 3835 | 3840 | 3844 | 3849 | 3854 | 3859 | 3863 | 3868 | 3873 | 3878 | |
| 02 | 3882 | 3887 | 3892 | 3896 | 3901 | 3906 | 3911 | 3915 | 3920 | 3925 | |
| 03 | 3929 | 3934 | 3939 | 3944 | 3948 | 3953 | 3958 | 3962 | 3967 | 3972 | |
| 04 | 3977 | 3981 | 3986 | 3991 | 3995 | 4000 | 4005 | 4010 | 4014 | 4019 | |
| 05 | 96 4024 | 4029 | 4033 | 4038 | 4043 | 4047 | 4052 | 4057 | 4062 | 4066 | |
| 06 | 4071 | 4076 | 4080 | 4085 | 4090 | 4095 | 4099 | 4104 | 4109 | 4113 | |
| 07 | 4118 | 4123 | 4128 | 4132 | 4137 | 4142 | 4146 | 4151 | 4156 | 4161 | |
| 08 | 4165 | 4170 | 4175 | 4179 | 4184 | 4189 | 4194 | 4198 | 4203 | 4208 | |
| 09 | 4212 | 4217 | 4222 | 4227 | 4231 | 4236 | 4241 | 4245 | 4250 | 4255 | |
| 9210 | 96 4260 | 4264 | 4269 | 4274 | 4278 | 4283 | 4288 | 4293 | 4297 | 4302 | |
| 11 | 4307 | 4311 | 4316 | 4321 | 4326 | 4330 | 4335 | 4340 | 4345 | 4349 | 5 |
| 12 | 4354 | 4359 | 4363 | 4368 | 4373 | 4378 | 4382 | 4387 | 4392 | 4396 | 1 0.5 |
| 13 | 4401 | 4406 | 4410 | 4415 | 4420 | 4425 | 4429 | 4434 | 4439 | 4443 | 2 1.0 |
| 14 | 4448 | 4453 | 4458 | 4462 | 4467 | 4472 | 4476 | 4481 | 4486 | 4491 | 3 1.5 |
| 15 | 96 4495 | 4500 | 4505 | 4509 | 4514 | 4519 | 4524 | 4528 | 4533 | 4538 | 4 2.0 |
| 16 | 4542 | 4547 | 4552 | 4557 | 4561 | 4566 | 4571 | 4575 | 4580 | 4585 | 5 2.5 |
| 17 | 4590 | 4594 | 4599 | 4604 | 4608 | 4613 | 4618 | 4623 | 4627 | 4632 | 6 3.0 |
| 18 | 4637 | 4641 | 4646 | 4651 | 4656 | 4660 | 4665 | 4670 | 4674 | 4679 | 7 3.5 |
| 19 | 4684 | 4689 | 4693 | 4698 | 4703 | 4707 | 4712 | 4717 | 4722 | 4726 | 8 4.0 |
| 9220 | 96 4731 | 4736 | 4740 | 4745 | 4750 | 4754 | 4759 | 4764 | 4769 | 4773 | 9 4.5 |
| 21 | 4778 | 4783 | 4787 | 4792 | 4797 | 4802 | 4806 | 4811 | 4816 | 4820 | |
| 22 | 4825 | 4830 | 4835 | 4839 | 4844 | 4849 | 4853 | 4858 | 4863 | 4867 | |
| 23 | 4872 | 4877 | 4882 | 4886 | 4891 | 4896 | 4900 | 4905 | 4910 | 4915 | |
| 24 | 4919 | 4924 | 4929 | 4933 | 4938 | 4943 | 4948 | 4952 | 4957 | 4962 | |
| 25 | 96 4966 | 4971 | 4976 | 4980 | 4985 | 4990 | 4995 | 4999 | 5004 | 5009 | |
| 26 | 5013 | 5018 | 5023 | 5028 | 5032 | 5037 | 5042 | 5046 | 5051 | 5056 | |
| 27 | 5061 | 5065 | 5070 | 5075 | 5079 | 5084 | 5089 | 5093 | 5098 | 5103 | |
| 28 | 5108 | 5112 | 5117 | 5122 | 5126 | 5131 | 5136 | 5141 | 5145 | 5150 | |
| 29 | 5155 | 5159 | 5164 | 5169 | 5173 | 5178 | 5183 | 5188 | 5192 | 5197 | |
| 9230 | 96 5202 | 5206 | 5211 | 5216 | 5221 | 5225 | 5230 | 5235 | 5239 | 5244 | |
| 31 | 5249 | 5253 | 5258 | 5263 | 5268 | 5272 | 5277 | 5282 | 5286 | 5291 | 4 |
| 32 | 5296 | 5301 | 5305 | 5310 | 5315 | 5319 | 5324 | 5329 | 5333 | 5338 | 1 0.4 |
| 33 | 5343 | 5348 | 5352 | 5357 | 5362 | 5366 | 5371 | 5376 | 5380 | 5385 | 2 0.8 |
| 34 | 5390 | 5395 | 5399 | 5404 | 5409 | 5413 | 5418 | 5423 | 5427 | 5432 | 3 1.2 |
| 35 | 96 5437 | 5442 | 5446 | 5451 | 5456 | 5460 | 5465 | 5470 | 5475 | 5479 | 4 1.6 |
| 36 | 5484 | 5489 | 5493 | 5498 | 5503 | 5507 | 5512 | 5517 | 5522 | 5526 | 5 2.0 |
| 37 | 5531 | 5536 | 5540 | 5545 | 5550 | 5554 | 5559 | 5564 | 5569 | 5573 | 6 2.4 |
| 38 | 5578 | 5583 | 5587 | 5592 | 5597 | 5601 | 5606 | 5611 | 5616 | 5620 | 7 2.8 |
| 39 | 5625 | 5630 | 5634 | 5639 | 5644 | 5648 | 5653 | 5658 | 5663 | 5667 | 8 3.2 |
| 9240 | 96 5672 | 5677 | 5681 | 5686 | 5691 | 5695 | 5700 | 5705 | 5710 | 5714 | 9 3.6 |
| 41 | 5719 | 5724 | 5728 | 5733 | 5738 | 5742 | 5747 | 5752 | 5757 | 5761 | |
| 42 | 5766 | 5771 | 5775 | 5780 | 5785 | 5789 | 5794 | 5799 | 5804 | 5808 | |
| 43 | 5813 | 5818 | 5822 | 5827 | 5832 | 5836 | 5841 | 5846 | 5851 | 5855 | |
| 44 | 5860 | 5865 | 5869 | 5874 | 5879 | 5883 | 5888 | 5893 | 5898 | 5902 | |
| 45 | 96 5907 | 5912 | 5916 | 5921 | 5926 | 5930 | 5935 | 5940 | 5944 | 5949 | |
| 46 | 5954 | 5959 | 5963 | 5968 | 5973 | 5977 | 5982 | 5987 | 5991 | 5996 | |
| 47 | 6001 | 6006 | 6010 | 6015 | 6020 | 6024 | 6029 | 6034 | 6038 | 6043 | |
| 48 | 6048 | 6053 | 6057 | 6062 | 6067 | 6071 | 6076 | 6081 | 6085 | 6090 | |
| 49 | 6095 | 6099 | 6104 | 6109 | 6114 | 6118 | 6123 | 6128 | 6132 | 6137 | |
| 9250 | 96 6142 | 6146 | 6151 | 6156 | 6161 | 6165 | 6170 | 6175 | 6179 | 6184 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 92000' | 25° 33' 20" | | | | | 9200' = 2° 33' 20" | | | S. 4.685 | 431 | T. 863 |
| 92100 | 25 35 0 | | | | | 9210 = 2 33 30 | | | | 431 | 864 |
| 92200 | 25 36 40 | | | | | 9220 = 2 33 40 | | | | 430 | 864 |
| 92300 | 25 38 20 | | | | | 9230 = 2 33 50 | | | | 430 | 865 |
| 92400 | 25 40 0 | | | | | 9240 = 2 34 0 | | | | 430 | 866 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|------|----------|------|--------|
| 9250 | 96 6142 | 6146 | 6151 | 6156 | 6161 | 6165 | 6170 | 6175 | 6179 | 6184 | |
| 51 | 6189 | 6193 | 6198 | 6203 | 6207 | 6212 | 6217 | 6222 | 6226 | 6231 | |
| 52 | 6236 | 6240 | 6245 | 6250 | 6254 | 6259 | 6264 | 6268 | 6273 | 6278 | |
| 53 | 6283 | 6287 | 6292 | 6297 | 6301 | 6306 | 6311 | 6315 | 6320 | 6325 | |
| 54 | 6329 | 6334 | 6339 | 6344 | 6348 | 6353 | 6358 | 6362 | 6367 | 6372 | |
| 55 | 96 6376 | 6381 | 6386 | 6391 | 6395 | 6400 | 6405 | 6409 | 6414 | 6419 | |
| 56 | 6423 | 6428 | 6433 | 6437 | 6442 | 6447 | 6451 | 6456 | 6461 | 6466 | |
| 57 | 6470 | 6475 | 6480 | 6484 | 6489 | 6494 | 6498 | 6503 | 6508 | 6512 | |
| 58 | 6517 | 6522 | 6527 | 6531 | 6536 | 6541 | 6545 | 6550 | 6555 | 6559 | |
| 59 | 6564 | 6569 | 6573 | 6578 | 6583 | 6588 | 6592 | 6597 | 6602 | 6606 | |
| 9260 | 96 6611 | 6616 | 6620 | 6625 | 6630 | 6634 | 6639 | 6644 | 6649 | 6653 | |
| 61 | 6658 | 6663 | 6667 | 6672 | 6677 | 6681 | 6686 | 6691 | 6695 | 6700 | 5 |
| 62 | 6705 | 6709 | 6714 | 6719 | 6724 | 6728 | 6733 | 6738 | 6742 | 6747 | 1 0.5 |
| 63 | 6752 | 6756 | 6761 | 6766 | 6770 | 6775 | 6780 | 6784 | 6789 | 6794 | 2 1.0 |
| 64 | 6799 | 6803 | 6808 | 6813 | 6817 | 6822 | 6827 | 6831 | 6836 | 6841 | 3 1.5 |
| 65 | 96 6845 | 6850 | 6855 | 6859 | 6864 | 6869 | 6874 | 6878 | 6883 | 6888 | 4 2.0 |
| 66 | 6892 | 6897 | 6902 | 6906 | 6911 | 6916 | 6920 | 6925 | 6930 | 6934 | 5 2.5 |
| 67 | 6939 | 6944 | 6949 | 6953 | 6958 | 6963 | 6967 | 6972 | 6977 | 6981 | 6 3.0 |
| 68 | 6986 | 6991 | 6995 | 7000 | 7005 | 7009 | 7014 | 7019 | 7024 | 7028 | 7 3.5 |
| 69 | 7033 | 7038 | 7042 | 7047 | 7052 | 7056 | 7061 | 7066 | 7070 | 7075 | 8 4.0 |
| 9270 | 96 7080 | 7084 | 7089 | 7094 | 7098 | 7103 | 7108 | 7113 | 7117 | 7122 | 9 4.5 |
| 71 | 7127 | 7131 | 7136 | 7141 | 7145 | 7150 | 7155 | 7159 | 7164 | 7169 | |
| 72 | 7173 | 7178 | 7183 | 7187 | 7192 | 7197 | 7202 | 7206 | 7211 | 7216 | |
| 73 | 7220 | 7225 | 7230 | 7234 | 7239 | 7244 | 7248 | 7253 | 7258 | 7262 | |
| 74 | 7267 | 7272 | 7276 | 7281 | 7286 | 7291 | 7295 | 7300 | 7305 | 7309 | |
| 75 | 96 7314 | 7319 | 7323 | 7328 | 7333 | 7337 | 7342 | 7347 | 7351 | 7356 | |
| 76 | 7361 | 7365 | 7370 | 7375 | 7379 | 7384 | 7389 | 7394 | 7398 | 7403 | |
| 77 | 7408 | 7412 | 7417 | 7422 | 7426 | 7431 | 7436 | 7440 | 7445 | 7450 | |
| 78 | 7454 | 7459 | 7464 | 7468 | 7473 | 7478 | 7482 | 7487 | 7492 | 7496 | |
| 79 | 7501 | 7506 | 7511 | 7515 | 7520 | 7525 | 7529 | 7534 | 7539 | 7543 | |
| 9280 | 96 7548 | 7553 | 7557 | 7562 | 7566 | 7571 | 7576 | 7581 | 7585 | 7590 | |
| 81 | 7595 | 7599 | 7604 | 7608 | 7613 | 7618 | 7623 | 7628 | 7633 | 7637 | 4 |
| 82 | 7642 | 7646 | 7651 | 7656 | 7660 | 7665 | 7670 | 7674 | 7679 | 7684 | 1 0.4 |
| 83 | 7688 | 7693 | 7698 | 7702 | 7707 | 7712 | 7716 | 7721 | 7726 | 7730 | 2 0.8 |
| 84 | 7735 | 7740 | 7744 | 7749 | 7754 | 7759 | 7763 | 7768 | 7773 | 7777 | 3 1.2 |
| 85 | 96 7782 | 7787 | 7791 | 7796 | 7801 | 7805 | 7810 | 7815 | 7819 | 7824 | 4 1.6 |
| 86 | 7829 | 7833 | 7838 | 7843 | 7847 | 7852 | 7857 | 7861 | 7866 | 7871 | 5 2.0 |
| 87 | 7875 | 7880 | 7885 | 7889 | 7894 | 7899 | 7904 | 7908 | 7913 | 7918 | 6 2.4 |
| 88 | 7922 | 7927 | 7932 | 7936 | 7941 | 7946 | 7950 | 7955 | 7960 | 7964 | 7 2.8 |
| 89 | 7969 | 7974 | 7978 | 7983 | 7988 | 7992 | 7997 | 8002 | 8006 | 8011 | 8 3.2 |
| 9290 | 96 8015 | 8020 | 8025 | 8030 | 8034 | 8039 | 8044 | 8048 | 8053 | 8058 | 9 3.6 |
| 91 | 8062 | 8067 | 8072 | 8076 | 8081 | 8086 | 8091 | 8095 | 8100 | 8105 | |
| 92 | 8109 | 8114 | 8119 | 8123 | 8128 | 8133 | 8137 | 8142 | 8147 | 8151 | |
| 93 | 8156 | 8161 | 8165 | 8170 | 8175 | 8179 | 8184 | 8189 | 8193 | 8198 | |
| 94 | 8203 | 8207 | 8212 | 8217 | 8221 | 8226 | 8231 | 8235 | 8240 | 8245 | |
| 95 | 96 8249 | 8254 | 8259 | 8263 | 8268 | 8273 | 8277 | 8282 | 8287 | 8291 | |
| 96 | 8296 | 8301 | 8305 | 8310 | 8315 | 8319 | 8324 | 8329 | 8333 | 8338 | |
| 97 | 8343 | 8348 | 8352 | 8357 | 8362 | 8366 | 8371 | 8376 | 8380 | 8385 | |
| 98 | 8390 | 8394 | 8399 | 8404 | 8408 | 8413 | 8418 | 8422 | 8427 | 8432 | |
| 99 | 8436 | 8441 | 8446 | 8450 | 8455 | 8460 | 8464 | 8469 | 8474 | 8478 | |
| 9300 | 96 8483 | 8488 | 8492 | 8497 | 8502 | 8506 | 8511 | 8516 | 8520 | 8525 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 92500 | = 25° 41' 40" | | | | 92500 | = 2° 34' 10" | | | S. 4,685 | 429 | T. 866 |
| 92600 | = 25 43 20 | | | | 92600 | = 2 34 20 | | | | 429 | 867 |
| 92700 | = 25 45 0 | | | | 92700 | = 2 34 30 | | | | 429 | 867 |
| 92800 | = 25 46 40 | | | | 92800 | = 2 34 40 | | | | 428 | 868 |
| 92900 | = 25 48 20 | | | | 92900 | = 2 34 50 | | | | 428 | 869 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|-------------|------|---------------------|------|------|-------|
| 9300 | 96 8483 | 8488 | 8492 | 8497 | 8502 | 8506 | 8511 | 8516 | 8520 | 8525 | |
| 01 | 8530 | 8534 | 8539 | 8544 | 8548 | 8553 | 8558 | 8562 | 8567 | 8572 | |
| 02 | 8576 | 8581 | 8586 | 8590 | 8595 | 8600 | 8604 | 8609 | 8614 | 8618 | |
| 03 | 8623 | 8628 | 8632 | 8637 | 8642 | 8646 | 8651 | 8656 | 8660 | 8665 | |
| 04 | 8670 | 8674 | 8679 | 8684 | 8688 | 8693 | 8698 | 8702 | 8707 | 8712 | |
| 05 | 96 8716 | 8721 | 8726 | 8730 | 8735 | 8740 | 8744 | 8749 | 8754 | 8758 | |
| 06 | 8763 | 8768 | 8772 | 8777 | 8782 | 8786 | 8791 | 8796 | 8800 | 8805 | |
| 07 | 8810 | 8814 | 8819 | 8824 | 8828 | 8833 | 8838 | 8842 | 8847 | 8852 | |
| 08 | 8856 | 8861 | 8866 | 8870 | 8875 | 8880 | 8884 | 8889 | 8894 | 8898 | |
| 09 | 8903 | 8908 | 8912 | 8917 | 8922 | 8926 | 8931 | 8936 | 8940 | 8945 | |
| 9310 | 96 8950 | 8954 | 8959 | 8964 | 8968 | 8973 | 8978 | 8982 | 8987 | 8992 | |
| 11 | 8996 | 9001 | 9006 | 9010 | 9015 | 9020 | 9024 | 9029 | 9034 | 9038 | 5 |
| 12 | 9043 | 9048 | 9052 | 9057 | 9062 | 9066 | 9071 | 9076 | 9080 | 9085 | 1 0.5 |
| 13 | 9090 | 9094 | 9099 | 9104 | 9108 | 9113 | 9118 | 9122 | 9127 | 9132 | 2 1.0 |
| 14 | 9136 | 9141 | 9146 | 9150 | 9155 | 9160 | 9164 | 9169 | 9174 | 9178 | 3 1.5 |
| 15 | 96 9183 | 9188 | 9192 | 9197 | 9202 | 9206 | 9211 | 9215 | 9220 | 9225 | 4 2.0 |
| 16 | 9229 | 9234 | 9239 | 9243 | 9248 | 9253 | 9257 | 9262 | 9267 | 9271 | 5 2.5 |
| 17 | 9276 | 9281 | 9285 | 9290 | 9295 | 9299 | 9304 | 9309 | 9313 | 9318 | 6 3.0 |
| 18 | 9323 | 9327 | 9332 | 9337 | 9341 | 9346 | 9351 | 9355 | 9360 | 9365 | 7 3.5 |
| 19 | 9369 | 9374 | 9379 | 9383 | 9388 | 9393 | 9397 | 9402 | 9407 | 9411 | 8 4.0 |
| 9320 | 96 9416 | 9421 | 9425 | 9430 | 9435 | 9439 | 9444 | 9449 | 9453 | 9458 | 9 4.5 |
| 21 | 9463 | 9467 | 9472 | 9476 | 9481 | 9486 | 9490 | 9495 | 9500 | 9504 | |
| 22 | 9509 | 9514 | 9518 | 9523 | 9528 | 9532 | 9537 | 9542 | 9546 | 9551 | |
| 23 | 9556 | 9560 | 9565 | 9570 | 9574 | 9579 | 9584 | 9588 | 9593 | 9598 | |
| 24 | 9602 | 9607 | 9612 | 9616 | 9621 | 9626 | 9630 | 9635 | 9640 | 9644 | |
| 25 | 96 9649 | 9653 | 9658 | 9663 | 9667 | 9672 | 9677 | 9681 | 9686 | 9691 | |
| 26 | 9695 | 9700 | 9705 | 9709 | 9714 | 9719 | 9723 | 9728 | 9733 | 9737 | |
| 27 | 9742 | 9747 | 9751 | 9756 | 9761 | 9765 | 9770 | 9775 | 9779 | 9784 | |
| 28 | 9789 | 9793 | 9798 | 9803 | 9807 | 9812 | 9816 | 9821 | 9826 | 9830 | |
| 29 | 9835 | 9840 | 9844 | 9849 | 9854 | 9858 | 9863 | 9868 | 9872 | 9877 | |
| 9330 | 96 9882 | 9886 | 9891 | 9896 | 9900 | 9905 | 9910 | 9914 | 9919 | 9924 | |
| 31 | 9928 | 9933 | 9937 | 9942 | 9947 | 9951 | 9956 | 9961 | 9965 | 9970 | 4 |
| 32 | 9975 | 9979 | 9984 | 9989 | 9993 | 9998 | 0003 | 0007 | 0012 | 0017 | 1 0.4 |
| 33 | 97 0021 | 0026 | 0031 | 0035 | 0040 | 0045 | 0049 | 0054 | 0058 | 0063 | 2 0.8 |
| 34 | 0068 | 0072 | 0077 | 0082 | 0086 | 0091 | 0096 | 0100 | 0105 | 0110 | 3 1.2 |
| 35 | 97 0114 | 0119 | 0124 | 0128 | 0133 | 0138 | 0142 | 0147 | 0152 | 0156 | 4 1.6 |
| 36 | 0161 | 0165 | 0170 | 0175 | 0179 | 0184 | 0189 | 0193 | 0198 | 0203 | 5 2.0 |
| 37 | 0207 | 0212 | 0217 | 0221 | 0226 | 0231 | 0235 | 0240 | 0245 | 0249 | 6 2.4 |
| 38 | 0254 | 0259 | 0263 | 0268 | 0272 | 0277 | 0282 | 0286 | 0291 | 0296 | 7 2.8 |
| 39 | 0300 | 0305 | 0310 | 0314 | 0319 | 0324 | 0328 | 0333 | 0338 | 0342 | 8 3.2 |
| 9340 | 97 0347 | 0352 | 0356 | 0361 | 0365 | 0370 | 0375 | 0379 | 0384 | 0389 | 9 3.6 |
| 41 | 0393 | 0398 | 0403 | 0407 | 0412 | 0417 | 0421 | 0426 | 0431 | 0435 | |
| 42 | 0440 | 0445 | 0449 | 0454 | 0458 | 0463 | 0468 | 0472 | 0477 | 0482 | |
| 43 | 0486 | 0491 | 0496 | 0500 | 0505 | 0510 | 0514 | 0519 | 0524 | 0528 | |
| 44 | 0533 | 0537 | 0542 | 0547 | 0551 | 0556 | 0561 | 0565 | 0570 | 0575 | |
| 45 | 97 0579 | 0584 | 0589 | 0593 | 0598 | 0603 | 0607 | 0612 | 0616 | 0621 | |
| 46 | 0626 | 0630 | 0635 | 0640 | 0644 | 0649 | 0654 | 0658 | 0663 | 0668 | |
| 47 | 0672 | 0677 | 0682 | 0686 | 0691 | 0695 | 0700 | 0705 | 0709 | 0714 | |
| 48 | 0719 | 0723 | 0728 | 0733 | 0737 | 0742 | 0747 | 0751 | 0756 | 0761 | |
| 49 | 0765 | 0770 | 0774 | 0779 | 0784 | 0788 | 0793 | 0798 | 0802 | 0807 | |
| 9350 | 97 0812 | 0816 | 0821 | 0826 | 0830 | 0835 | 0839 | 0844 | 0849 | 0853 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 93000 | = 25° 50' 0" | | | | 93000 | = 2° 35' 0" | | S. 4.685 428 T. 869 | | | |
| 93100 | = 25 51 40 | | | | 93100 | = 2 35 10 | | 427 870 | | | |
| 93200 | = 25 53 20 | | | | 93200 | = 2 35 20 | | 427 871 | | | |
| 93300 | = 25 55 0 | | | | 93300 | = 2 35 30 | | 427 872 | | | |
| 93400 | = 25 56 40 | | | | 93400 | = 2 35 40 | | 426 872 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|------|--------|------------|------|------|------|---------------------|
| 9350 | 97 0812 | 0816 | 0821 | 0826 | 0830 | 0835 | 0839 | 0844 | 0849 | 0853 | |
| 51 | 0858 | 0863 | 0867 | 0872 | 0877 | 0881 | 0886 | 0891 | 0895 | 0900 | |
| 52 | 0904 | 0909 | 0914 | 0918 | 0923 | 0928 | 0932 | 0937 | 0942 | 0946 | |
| 53 | 0951 | 0956 | 0960 | 0965 | 0970 | 0974 | 0979 | 0983 | 0988 | 0993 | |
| 54 | 0997 | 1002 | 1007 | 1011 | 1016 | 1021 | 1025 | 1030 | 1035 | 1039 | |
| 55 | 97 1044 | 1048 | 1053 | 1058 | 1062 | 1067 | 1072 | 1076 | 1081 | 1086 | |
| 56 | 1090 | 1095 | 1099 | 1104 | 1109 | 1113 | 1118 | 1123 | 1127 | 1132 | |
| 57 | 1137 | 1141 | 1146 | 1151 | 1155 | 1160 | 1164 | 1169 | 1174 | 1178 | |
| 58 | 1183 | 1188 | 1192 | 1197 | 1202 | 1206 | 1211 | 1216 | 1220 | 1225 | |
| 59 | 1229 | 1234 | 1239 | 1243 | 1248 | 1253 | 1257 | 1262 | 1267 | 1271 | |
| 9360 | 97 1276 | 1280 | 1285 | 1290 | 1294 | 1299 | 1304 | 1308 | 1313 | 1318 | |
| 61 | 1322 | 1327 | 1332 | 1336 | 1341 | 1345 | 1350 | 1355 | 1359 | 1364 | 5 |
| 62 | 1369 | 1373 | 1378 | 1383 | 1387 | 1392 | 1396 | 1401 | 1406 | 1410 | 1 0.5 |
| 63 | 1415 | 1420 | 1424 | 1429 | 1434 | 1438 | 1443 | 1447 | 1452 | 1457 | 2 1.0 |
| 64 | 1461 | 1466 | 1471 | 1475 | 1480 | 1485 | 1489 | 1494 | 1499 | 1503 | 3 1.5 |
| 65 | 97 1508 | 1512 | 1517 | 1522 | 1526 | 1531 | 1536 | 1540 | 1545 | 1550 | 4 2.0 |
| 66 | 1554 | 1559 | 1563 | 1568 | 1573 | 1577 | 1582 | 1587 | 1591 | 1596 | 5 2.5 |
| 67 | 1601 | 1605 | 1610 | 1614 | 1619 | 1624 | 1628 | 1633 | 1638 | 1642 | 6 3.0 |
| 68 | 1647 | 1652 | 1656 | 1661 | 1665 | 1670 | 1675 | 1679 | 1684 | 1689 | 7 3.5 |
| 69 | 1693 | 1698 | 1703 | 1707 | 1712 | 1716 | 1721 | 1726 | 1730 | 1735 | 8 4.0 |
| 9370 | 97 1740 | 1744 | 1749 | 1753 | 1758 | 1763 | 1767 | 1772 | 1777 | 1781 | 9 4.5 |
| 71 | 1786 | 1791 | 1795 | 1800 | 1804 | 1809 | 1814 | 1818 | 1823 | 1828 | |
| 72 | 1832 | 1837 | 1842 | 1846 | 1851 | 1855 | 1860 | 1865 | 1869 | 1874 | |
| 73 | 1879 | 1883 | 1888 | 1893 | 1897 | 1902 | 1906 | 1911 | 1916 | 1920 | |
| 74 | 1925 | 1930 | 1934 | 1939 | 1943 | 1948 | 1953 | 1957 | 1962 | 1967 | |
| 75 | 97 1971 | 1976 | 1981 | 1985 | 1990 | 1994 | 1999 | 2004 | 2008 | 2013 | |
| 76 | 2018 | 2022 | 2027 | 2031 | 2036 | 2041 | 2045 | 2050 | 2055 | 2059 | |
| 77 | 2064 | 2069 | 2073 | 2078 | 2082 | 2087 | 2092 | 2096 | 2101 | 2106 | |
| 78 | 2110 | 2115 | 2119 | 2124 | 2129 | 2133 | 2138 | 2143 | 2147 | 2152 | |
| 79 | 2157 | 2161 | 2166 | 2170 | 2175 | 2180 | 2184 | 2189 | 2194 | 2198 | |
| 9380 | 97 2203 | 2207 | 2212 | 2217 | 2221 | 2226 | 2231 | 2235 | 2240 | 2245 | |
| 81 | 2249 | 2254 | 2258 | 2263 | 2268 | 2272 | 2277 | 2282 | 2286 | 2291 | 4 |
| 82 | 2295 | 2300 | 2305 | 2309 | 2314 | 2319 | 2323 | 2328 | 2332 | 2337 | 1 0.4 |
| 83 | 2342 | 2346 | 2351 | 2356 | 2360 | 2365 | 2369 | 2374 | 2379 | 2383 | 2 0.8 |
| 84 | 2388 | 2393 | 2397 | 2402 | 2407 | 2411 | 2416 | 2420 | 2425 | 2430 | 3 1.2 |
| 85 | 97 2434 | 2439 | 2444 | 2448 | 2453 | 2457 | 2462 | 2467 | 2471 | 2476 | 4 1.6 |
| 86 | 2481 | 2485 | 2490 | 2494 | 2499 | 2504 | 2508 | 2513 | 2518 | 2522 | 5 2.0 |
| 87 | 2527 | 2531 | 2536 | 2541 | 2545 | 2550 | 2555 | 2559 | 2564 | 2568 | 6 2.4 |
| 88 | 2573 | 2578 | 2582 | 2587 | 2592 | 2596 | 2601 | 2605 | 2610 | 2615 | 7 2.8 |
| 89 | 2619 | 2624 | 2629 | 2633 | 2638 | 2642 | 2647 | 2652 | 2656 | 2661 | 8 3.2 |
| 9390 | 97 2666 | 2670 | 2675 | 2679 | 2684 | 2689 | 2693 | 2698 | 2703 | 2707 | 9 3.6 |
| 91 | 2712 | 2716 | 2721 | 2726 | 2730 | 2735 | 2740 | 2744 | 2749 | 2753 | |
| 92 | 2758 | 2763 | 2767 | 2772 | 2777 | 2781 | 2786 | 2790 | 2795 | 2800 | |
| 93 | 2804 | 2809 | 2814 | 2818 | 2823 | 2827 | 2832 | 2837 | 2841 | 2846 | |
| 94 | 2851 | 2855 | 2860 | 2864 | 2869 | 2874 | 2878 | 2883 | 2888 | 2892 | |
| 95 | 97 2897 | 2901 | 2906 | 2911 | 2915 | 2920 | 2925 | 2929 | 2934 | 2938 | |
| 96 | 2943 | 2948 | 2952 | 2957 | 2961 | 2966 | 2971 | 2975 | 2980 | 2985 | |
| 97 | 2989 | 2994 | 2998 | 3003 | 3008 | 3012 | 3017 | 3022 | 3026 | 3031 | |
| 98 | 3035 | 3040 | 3045 | 3049 | 3054 | 3059 | 3063 | 3068 | 3072 | 3077 | |
| 99 | 3082 | 3086 | 3091 | 3096 | 3100 | 3105 | 3109 | 3114 | 3119 | 3123 | |
| 9400 | 97 3128 | 3132 | 3137 | 3142 | 3146 | 3151 | 3156 | 3160 | 3165 | 3169 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 93500" | 25° 58' 20" | | | | | 93500" | 2° 35' 50" | | | | S. 4,685 426 T. 872 |
| 93600 | 26 0 0 | | | | | 93600 | 2 36 0 | | | | 426 873 |
| 93700 | 26 1 40 | | | | | 93700 | 2 36 10 | | | | 425 874 |
| 93800 | 26 3 20 | | | | | 93800 | 2 36 20 | | | | 425 874 |
| 93900 | 26 5 0 | | | | | 93900 | 2 36 30 | | | | 425 875 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|---------------------|------|------|---------------------|------|------|-------|
| 9400 | 97 3128 | 3132 | 3137 | 3142 | 3146 | 3151 | 3156 | 3160 | 3165 | 3169 | |
| 01 | 3174 | 3179 | 3183 | 3188 | 3193 | 3197 | 3202 | 3206 | 3211 | 3216 | |
| 02 | 3220 | 3225 | 3229 | 3234 | 3239 | 3243 | 3248 | 3253 | 3257 | 3262 | |
| 03 | 3266 | 3271 | 3276 | 3280 | 3285 | 3290 | 3294 | 3299 | 3303 | 3308 | |
| 04 | 3313 | 3317 | 3322 | 3326 | 3331 | 3336 | 3340 | 3345 | 3350 | 3354 | |
| 05 | 97 3359 | 3363 | 3368 | 3373 | 3377 | 3382 | 3387 | 3391 | 3396 | 3400 | |
| 06 | 3405 | 3410 | 3414 | 3419 | 3423 | 3428 | 3433 | 3437 | 3442 | 3447 | |
| 07 | 3451 | 3456 | 3460 | 3465 | 3470 | 3474 | 3479 | 3483 | 3488 | 3493 | |
| 08 | 3497 | 3502 | 3507 | 3511 | 3516 | 3520 | 3525 | 3530 | 3534 | 3539 | |
| 09 | 3543 | 3548 | 3553 | 3557 | 3562 | 3567 | 3571 | 3576 | 3580 | 3585 | |
| 9410 | 97 3590 | 3594 | 3599 | 3603 | 3608 | 3613 | 3617 | 3622 | 3627 | 3631 | |
| 11 | 3636 | 3640 | 3645 | 3650 | 3654 | 3659 | 3663 | 3668 | 3673 | 3677 | 5 |
| 12 | 3682 | 3687 | 3691 | 3696 | 3700 | 3705 | 3710 | 3714 | 3719 | 3723 | 1 0.5 |
| 13 | 3728 | 3733 | 3737 | 3742 | 3747 | 3751 | 3756 | 3760 | 3765 | 3770 | 2 1.0 |
| 14 | 3774 | 3779 | 3783 | 3788 | 3793 | 3797 | 3802 | 3806 | 3811 | 3816 | 3 1.5 |
| 15 | 97 3820 | 3825 | 3830 | 3834 | 3839 | 3843 | 3848 | 3853 | 3857 | 3862 | 4 2.0 |
| 16 | 3866 | 3871 | 3876 | 3880 | 3885 | 3890 | 3894 | 3899 | 3903 | 3908 | 5 2.5 |
| 17 | 3913 | 3917 | 3922 | 3926 | 3931 | 3936 | 3940 | 3945 | 3949 | 3954 | 6 3.0 |
| 18 | 3959 | 3963 | 3968 | 3973 | 3977 | 3982 | 3986 | 3991 | 3996 | 4000 | 7 3.5 |
| 19 | 4005 | 4009 | 4014 | 4019 | 4023 | 4028 | 4032 | 4037 | 4042 | 4046 | 8 4.0 |
| 9420 | 97 4051 | 4056 | 4060 | 4065 | 4069 | 4074 | 4079 | 4083 | 4088 | 4092 | 9 4.5 |
| 21 | 4097 | 4102 | 4106 | 4111 | 4115 | 4120 | 4125 | 4129 | 4134 | 4138 | |
| 22 | 4143 | 4148 | 4152 | 4157 | 4162 | 4166 | 4171 | 4175 | 4180 | 4185 | |
| 23 | 4189 | 4194 | 4198 | 4203 | 4208 | 4212 | 4217 | 4221 | 4226 | 4231 | |
| 24 | 4235 | 4240 | 4244 | 4249 | 4254 | 4258 | 4263 | 4268 | 4272 | 4277 | |
| 25 | 97 4281 | 4286 | 4291 | 4295 | 4300 | 4304 | 4309 | 4314 | 4318 | 4323 | |
| 26 | 4327 | 4332 | 4337 | 4341 | 4346 | 4350 | 4355 | 4360 | 4364 | 4369 | |
| 27 | 4374 | 4378 | 4383 | 4387 | 4392 | 4397 | 4401 | 4406 | 4410 | 4415 | |
| 28 | 4420 | 4424 | 4429 | 4433 | 4438 | 4443 | 4447 | 4452 | 4456 | 4461 | |
| 29 | 4466 | 4470 | 4475 | 4479 | 4484 | 4489 | 4493 | 4498 | 4502 | 4507 | |
| 9430 | 97 4512 | 4516 | 4521 | 4526 | 4530 | 4535 | 4539 | 4544 | 4549 | 4553 | |
| 31 | 4558 | 4562 | 4567 | 4572 | 4576 | 4581 | 4585 | 4590 | 4595 | 4599 | 4 |
| 32 | 4604 | 4608 | 4613 | 4618 | 4622 | 4627 | 4631 | 4636 | 4641 | 4645 | 1 0.4 |
| 33 | 4650 | 4654 | 4659 | 4664 | 4668 | 4673 | 4677 | 4682 | 4687 | 4691 | 2 0.8 |
| 34 | 4696 | 4700 | 4705 | 4710 | 4714 | 4719 | 4723 | 4728 | 4733 | 4737 | 3 1.2 |
| 35 | 97 4742 | 4747 | 4751 | 4756 | 4760 | 4765 | 4770 | 4774 | 4779 | 4783 | 4 1.6 |
| 36 | 4788 | 4793 | 4797 | 4802 | 4806 | 4811 | 4816 | 4820 | 4825 | 4829 | 5 2.0 |
| 37 | 4834 | 4839 | 4843 | 4848 | 4852 | 4857 | 4862 | 4866 | 4871 | 4875 | 6 2.4 |
| 38 | 4880 | 4885 | 4889 | 4894 | 4898 | 4903 | 4908 | 4912 | 4917 | 4921 | 7 2.8 |
| 39 | 4926 | 4931 | 4935 | 4940 | 4944 | 4949 | 4954 | 4958 | 4963 | 4967 | 8 3.2 |
| 9440 | 97 4972 | 4977 | 4981 | 4986 | 4990 | 4995 | 5000 | 5004 | 5009 | 5013 | 9 3.6 |
| 41 | 5018 | 5023 | 5027 | 5032 | 5036 | 5041 | 5046 | 5050 | 5055 | 5059 | |
| 42 | 5064 | 5069 | 5073 | 5078 | 5082 | 5087 | 5092 | 5096 | 5101 | 5105 | |
| 43 | 5110 | 5115 | 5119 | 5124 | 5128 | 5133 | 5138 | 5142 | 5147 | 5151 | |
| 44 | 5156 | 5161 | 5165 | 5170 | 5174 | 5179 | 5184 | 5188 | 5193 | 5197 | |
| 45 | 97 5202 | 5207 | 5211 | 5216 | 5220 | 5225 | 5230 | 5234 | 5239 | 5243 | |
| 46 | 5248 | 5253 | 5257 | 5262 | 5266 | 5271 | 5276 | 5280 | 5285 | 5289 | |
| 47 | 5294 | 5299 | 5303 | 5308 | 5312 | 5317 | 5321 | 5326 | 5331 | 5335 | |
| 48 | 5340 | 5344 | 5349 | 5354 | 5358 | 5363 | 5367 | 5372 | 5377 | 5381 | |
| 49 | 5386 | 5390 | 5395 | 5400 | 5404 | 5409 | 5413 | 5418 | 5423 | 5427 | |
| 9450 | 97 5432 | 5436 | 5441 | 5446 | 5450 | 5455 | 5459 | 5464 | 5469 | 5473 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 94000 | = 26° 6' 40" | | | | 94000' = 2° 36' 40" | | | S. 4.685 425 T. 876 | | | |
| 94100 | = 26 8 20 | | | | 94100 = 2 36 50 | | | 424 876 | | | |
| 94200 | = 26 10 0 | | | | 94200 = 2 37 0 | | | 424 877 | | | |
| 94300 | = 26 11 40 | | | | 94300 = 2 37 10 | | | 424 878 | | | |
| 94400 | = 26 13 20 | | | | 94400 = 2 37 20 | | | 423 878 | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|--------------|------|------|------|------|---------------------|------|----------|------|--------|-------|
| 9450 | 97 5432 | 5436 | 5441 | 5446 | 5450 | 5455 | 5459 | 5464 | 5469 | 5473 | |
| 51 | 5478 | 5482 | 5487 | 5492 | 5496 | 5501 | 5505 | 5510 | 5515 | 5519 | |
| 52 | 5524 | 5528 | 5533 | 5537 | 5542 | 5547 | 5551 | 5556 | 5560 | 5565 | |
| 53 | 5570 | 5574 | 5579 | 5583 | 5588 | 5593 | 5597 | 5602 | 5606 | 5611 | |
| 54 | 5616 | 5620 | 5625 | 5629 | 5634 | 5639 | 5643 | 5648 | 5652 | 5657 | |
| 55 | 97 5662 | 5666 | 5671 | 5675 | 5680 | 5684 | 5689 | 5694 | 5698 | 5703 | |
| 56 | 5707 | 5712 | 5717 | 5721 | 5726 | 5730 | 5735 | 5740 | 5744 | 5749 | |
| 57 | 5753 | 5758 | 5763 | 5767 | 5772 | 5776 | 5781 | 5786 | 5790 | 5795 | |
| 58 | 5799 | 5804 | 5808 | 5813 | 5818 | 5822 | 5827 | 5831 | 5836 | 5841 | |
| 59 | 5845 | 5850 | 5854 | 5859 | 5864 | 5868 | 5873 | 5877 | 5882 | 5887 | |
| 9460 | 97 5891 | 5896 | 5900 | 5905 | 5909 | 5914 | 5919 | 5923 | 5928 | 5932 | |
| 61 | 5937 | 5942 | 5946 | 5951 | 5955 | 5960 | 5965 | 5969 | 5974 | 5978 | 5 |
| 62 | 5983 | 5988 | 5992 | 5997 | 6001 | 6006 | 6010 | 6015 | 6020 | 6024 | 1 0.5 |
| 63 | 6029 | 6033 | 6038 | 6043 | 6047 | 6052 | 6056 | 6061 | 6066 | 6070 | 2 1.0 |
| 64 | 6075 | 6079 | 6084 | 6088 | 6093 | 6098 | 6102 | 6107 | 6111 | 6116 | 3 1.5 |
| 65 | 97 6121 | 6125 | 6130 | 6134 | 6139 | 6144 | 6148 | 6153 | 6157 | 6162 | 4 2.0 |
| 66 | 6167 | 6171 | 6176 | 6180 | 6185 | 6189 | 6194 | 6199 | 6203 | 6208 | 5 2.5 |
| 67 | 6212 | 6217 | 6222 | 6226 | 6231 | 6235 | 6240 | 6244 | 6249 | 6254 | 6 3.0 |
| 68 | 6258 | 6263 | 6267 | 6272 | 6277 | 6281 | 6286 | 6290 | 6295 | 6300 | 7 3.5 |
| 69 | 6304 | 6309 | 6313 | 6318 | 6322 | 6327 | 6332 | 6336 | 6341 | 6345 | 8 4.0 |
| 9470 | 97 6350 | 6355 | 6359 | 6364 | 6368 | 6373 | 6377 | 6382 | 6387 | 6391 | 9 4.5 |
| 71 | 6396 | 6400 | 6405 | 6410 | 6414 | 6419 | 6423 | 6428 | 6433 | 6437 | |
| 72 | 6442 | 6446 | 6451 | 6455 | 6460 | 6465 | 6469 | 6474 | 6478 | 6483 | |
| 73 | 6488 | 6492 | 6497 | 6501 | 6506 | 6510 | 6515 | 6520 | 6524 | 6529 | |
| 74 | 6533 | 6538 | 6543 | 6547 | 6552 | 6556 | 6561 | 6565 | 6570 | 6575 | |
| 75 | 97 6579 | 6584 | 6588 | 6593 | 6598 | 6602 | 6607 | 6611 | 6616 | 6620 | |
| 76 | 6625 | 6630 | 6634 | 6639 | 6643 | 6648 | 6653 | 6657 | 6662 | 6666 | |
| 77 | 6671 | 6675 | 6680 | 6685 | 6689 | 6694 | 6698 | 6703 | 6708 | 6712 | |
| 78 | 6717 | 6721 | 6726 | 6730 | 6735 | 6740 | 6744 | 6749 | 6753 | 6758 | |
| 79 | 6763 | 6767 | 6772 | 6776 | 6781 | 6785 | 6790 | 6795 | 6799 | 6804 | |
| 9480 | 97 6808 | 6813 | 6817 | 6822 | 6827 | 6831 | 6836 | 6840 | 6845 | 6850 | |
| 81 | 6854 | 6859 | 6863 | 6868 | 6872 | 6877 | 6882 | 6886 | 6891 | 6895 | 4 |
| 82 | 6900 | 6905 | 6909 | 6914 | 6918 | 6923 | 6927 | 6932 | 6937 | 6941 | 1 0.4 |
| 83 | 6946 | 6950 | 6955 | 6959 | 6964 | 6969 | 6973 | 6978 | 6982 | 6987 | 2 0.8 |
| 84 | 6992 | 6996 | 7001 | 7005 | 7010 | 7014 | 7019 | 7024 | 7028 | 7033 | 3 1.2 |
| 85 | 97 7037 | 7042 | 7046 | 7051 | 7056 | 7060 | 7065 | 7069 | 7074 | 7079 | 4 1.6 |
| 86 | 7083 | 7088 | 7092 | 7097 | 7101 | 7106 | 7111 | 7115 | 7120 | 7124 | 5 2.0 |
| 87 | 7129 | 7133 | 7138 | 7143 | 7147 | 7152 | 7156 | 7161 | 7166 | 7170 | 6 2.4 |
| 88 | 7175 | 7179 | 7184 | 7188 | 7193 | 7197 | 7202 | 7207 | 7211 | 7216 | 7 2.8 |
| 89 | 7220 | 7225 | 7230 | 7234 | 7239 | 7244 | 7248 | 7253 | 7257 | 7262 | 8 3.2 |
| 9490 | 97 7266 | 7271 | 7275 | 7280 | 7285 | 7289 | 7294 | 7298 | 7303 | 7307 | 9 3.6 |
| 91 | 7312 | 7317 | 7321 | 7326 | 7330 | 7335 | 7339 | 7344 | 7349 | 7353 | |
| 92 | 7358 | 7362 | 7367 | 7371 | 7376 | 7381 | 7385 | 7390 | 7394 | 7399 | |
| 93 | 7403 | 7408 | 7413 | 7417 | 7422 | 7426 | 7431 | 7436 | 7440 | 7445 | |
| 94 | 7449 | 7454 | 7458 | 7463 | 7468 | 7472 | 7477 | 7481 | 7486 | 7490 | |
| 95 | 97 7495 | 7500 | 7504 | 7509 | 7513 | 7518 | 7522 | 7527 | 7532 | 7536 | |
| 96 | 7541 | 7545 | 7550 | 7554 | 7559 | 7564 | 7568 | 7573 | 7577 | 7582 | |
| 97 | 7586 | 7591 | 7596 | 7600 | 7605 | 7609 | 7614 | 7618 | 7623 | 7628 | |
| 98 | 7632 | 7637 | 7641 | 7646 | 7650 | 7655 | 7660 | 7664 | 7669 | 7673 | |
| 99 | 7678 | 7682 | 7687 | 7692 | 7696 | 7701 | 7705 | 7710 | 7714 | 7719 | |
| 9500 | 97 7724 | 7728 | 7733 | 7737 | 7742 | 7746 | 7751 | 7756 | 7760 | 7765 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 94500' | = 26° 15' 0" | | | | | 94500' = 2° 37' 30" | | S. 4.685 | 423 | T. 879 | |
| 94600 | = 26 16 40 | | | | | 94600 = 2 37 40 | | | 423 | 880 | |
| 94700 | = 26 18 20 | | | | | 94700 = 2 37 50 | | | 422 | 880 | |
| 94800 | = 26 20 0 | | | | | 94800 = 2 38 0 | | | 422 | 881 | |
| 94900 | = 26 21 40 | | | | | 94900 = 2 38 10 | | | 422 | 881 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|---------------------|------|----------|------|--------|------|-------|
| 9500 | 97 7724 | 7728 | 7733 | 7737 | 7742 | 7746 | 7751 | 7756 | 7760 | 7765 | |
| 01 | 7769 | 7774 | 7778 | 7783 | 7788 | 7792 | 7797 | 7801 | 7806 | 7810 | |
| 02 | 7815 | 7820 | 7824 | 7829 | 7833 | 7838 | 7842 | 7847 | 7852 | 7856 | |
| 03 | 7861 | 7865 | 7870 | 7874 | 7879 | 7884 | 7888 | 7893 | 7897 | 7902 | |
| 04 | 7906 | 7911 | 7916 | 7920 | 7925 | 7929 | 7934 | 7938 | 7943 | 7948 | |
| 05 | 97 7952 | 7957 | 7961 | 7966 | 7970 | 7975 | 7980 | 7984 | 7989 | 7993 | |
| 06 | 7998 | 8002 | 8007 | 8012 | 8016 | 8021 | 8025 | 8030 | 8034 | 8039 | |
| 07 | 8043 | 8048 | 8053 | 8057 | 8062 | 8066 | 8071 | 8075 | 8080 | 8085 | |
| 08 | 8089 | 8094 | 8098 | 8103 | 8107 | 8112 | 8117 | 8121 | 8126 | 8130 | |
| 09 | 8135 | 8139 | 8144 | 8149 | 8153 | 8158 | 8162 | 8167 | 8171 | 8176 | |
| 9510 | 97 8181 | 8185 | 8190 | 8194 | 8199 | 8203 | 8208 | 8212 | 8217 | 8222 | |
| 11 | 8226 | 8231 | 8235 | 8240 | 8244 | 8249 | 8254 | 8258 | 8263 | 8267 | 5 |
| 12 | 8272 | 8276 | 8281 | 8286 | 8290 | 8295 | 8299 | 8304 | 8308 | 8313 | 1 0.5 |
| 13 | 8317 | 8322 | 8327 | 8331 | 8336 | 8340 | 8345 | 8349 | 8354 | 8359 | 2 1.0 |
| 14 | 8363 | 8368 | 8372 | 8377 | 8381 | 8386 | 8391 | 8395 | 8400 | 8404 | 3 1.5 |
| 15 | 97 8409 | 8413 | 8418 | 8422 | 8427 | 8432 | 8436 | 8441 | 8445 | 8450 | 4 2.0 |
| 16 | 8454 | 8459 | 8464 | 8468 | 8473 | 8477 | 8482 | 8486 | 8491 | 8496 | 5 2.5 |
| 17 | 8500 | 8505 | 8509 | 8514 | 8518 | 8523 | 8527 | 8532 | 8537 | 8541 | 6 3.0 |
| 18 | 8546 | 8550 | 8555 | 8559 | 8564 | 8569 | 8573 | 8578 | 8582 | 8587 | 7 3.5 |
| 19 | 8591 | 8596 | 8600 | 8605 | 8610 | 8614 | 8619 | 8623 | 8628 | 8632 | 8 4.0 |
| 9520 | 97 8637 | 8642 | 8646 | 8651 | 8655 | 8660 | 8664 | 8669 | 8673 | 8678 | 9 4.5 |
| 21 | 8683 | 8687 | 8692 | 8696 | 8701 | 8705 | 8710 | 8714 | 8719 | 8724 | |
| 22 | 8728 | 8733 | 8737 | 8742 | 8746 | 8751 | 8756 | 8760 | 8765 | 8769 | |
| 23 | 8774 | 8778 | 8783 | 8787 | 8792 | 8797 | 8801 | 8806 | 8810 | 8815 | |
| 24 | 8819 | 8824 | 8829 | 8833 | 8838 | 8842 | 8847 | 8851 | 8856 | 8860 | |
| 25 | 97 8865 | 8870 | 8874 | 8879 | 8883 | 8888 | 8892 | 8897 | 8901 | 8906 | |
| 26 | 8911 | 8915 | 8920 | 8924 | 8929 | 8933 | 8938 | 8942 | 8947 | 8952 | |
| 27 | 8956 | 8961 | 8965 | 8970 | 8974 | 8979 | 8984 | 8988 | 8993 | 8997 | |
| 28 | 9002 | 9006 | 9011 | 9015 | 9020 | 9025 | 9029 | 9034 | 9038 | 9043 | |
| 29 | 9047 | 9052 | 9056 | 9061 | 9066 | 9070 | 9075 | 9079 | 9084 | 9088 | |
| 9530 | 97 9093 | 9097 | 9102 | 9107 | 9111 | 9116 | 9120 | 9125 | 9129 | 9134 | |
| 31 | 9138 | 9143 | 9148 | 9152 | 9157 | 9161 | 9166 | 9170 | 9175 | 9179 | 4 |
| 32 | 9184 | 9189 | 9193 | 9198 | 9202 | 9207 | 9211 | 9216 | 9220 | 9225 | 1 0.4 |
| 33 | 9230 | 9234 | 9239 | 9243 | 9248 | 9252 | 9257 | 9261 | 9265 | 9271 | 2 0.8 |
| 34 | 9275 | 9280 | 9284 | 9289 | 9293 | 9298 | 9302 | 9307 | 9312 | 9316 | 3 1.2 |
| 35 | 97 9321 | 9325 | 9330 | 9334 | 9339 | 9343 | 9348 | 9353 | 9357 | 9362 | 4 1.6 |
| 36 | 9366 | 9371 | 9375 | 9380 | 9384 | 9389 | 9394 | 9398 | 9403 | 9407 | 5 2.0 |
| 37 | 9412 | 9416 | 9421 | 9425 | 9430 | 9435 | 9439 | 9444 | 9448 | 9453 | 6 2.4 |
| 38 | 9457 | 9462 | 9466 | 9471 | 9476 | 9480 | 9485 | 9489 | 9494 | 9498 | 7 2.8 |
| 39 | 9503 | 9507 | 9512 | 9517 | 9521 | 9526 | 9530 | 9535 | 9539 | 9544 | 8 3.2 |
| 9540 | 97 9548 | 9553 | 9557 | 9562 | 9567 | 9571 | 9576 | 9580 | 9585 | 9589 | 9 3.6 |
| 41 | 9594 | 9598 | 9603 | 9608 | 9612 | 9617 | 9621 | 9626 | 9630 | 9635 | |
| 42 | 9639 | 9644 | 9649 | 9653 | 9658 | 9662 | 9667 | 9671 | 9676 | 9680 | |
| 43 | 9685 | 9689 | 9694 | 9699 | 9703 | 9708 | 9712 | 9717 | 9721 | 9726 | |
| 44 | 9730 | 9735 | 9740 | 9744 | 9749 | 9753 | 9758 | 9762 | 9767 | 9771 | |
| 45 | 97 9776 | 9780 | 9785 | 9790 | 9794 | 9799 | 9803 | 9808 | 9812 | 9817 | |
| 46 | 9821 | 9826 | 9831 | 9835 | 9840 | 9844 | 9849 | 9853 | 9858 | 9862 | |
| 47 | 9867 | 9871 | 9876 | 9881 | 9885 | 9890 | 9894 | 9899 | 9903 | 9908 | |
| 48 | 9912 | 9917 | 9922 | 9926 | 9931 | 9935 | 9940 | 9944 | 9949 | 9953 | |
| 49 | 9958 | 9962 | 9967 | 9972 | 9976 | 9981 | 9985 | 9990 | 9994 | 9999 | |
| 9550 | 98 0003 | 0008 | 0012 | 0017 | 0022 | 0026 | 0031 | 0035 | 0040 | 0044 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 95000" = 26° 23' 20" | | | | 95000" = 2° 38' 20" | | S. 4.685 | 421 | T. 882 | | |
| | 95100 = 26 25 0 | | | | 95100 = 2 38 30 | | | 421 | 883 | | |
| | 95200 = 26 26 40 | | | | 95200 = 2 38 40 | | | 421 | 883 | | |
| | 95300 = 26 28 20 | | | | 95300 = 2 38 50 | | | 420 | 884 | | |
| | 95400 = 26 30 0 | | | | 95400 = 2 39 0 | | | 420 | 885 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|------|------|------|--------------|--------|
| 9550 | 98 0003 | 0008 | 0012 | 0017 | 0022 | 0026 | 0031 | 0035 | 0040 | 0044 | |
| 51 | 0049 | 0053 | 0058 | 0062 | 0067 | 0072 | 0076 | 0081 | 0085 | 0090 | |
| 52 | 0094 | 0099 | 0103 | 0108 | 0112 | 0117 | 0122 | 0126 | 0131 | 0135 | |
| 53 | 0140 | 0144 | 0149 | 0153 | 0158 | 0163 | 0167 | 0172 | 0176 | 0181 | |
| 54 | 0185 | 0190 | 0194 | 0199 | 0203 | 0208 | 0213 | 0217 | 0222 | 0226 | |
| 55 | 98 0231 | 0235 | 0240 | 0244 | 0249 | 0253 | 0258 | 0263 | 0267 | 0272 | |
| 56 | 0276 | 0281 | 0285 | 0290 | 0294 | 0299 | 0303 | 0308 | 0312 | 0317 | |
| 57 | 0322 | 0326 | 0331 | 0335 | 0340 | 0344 | 0349 | 0353 | 0358 | 0362 | |
| 58 | 0367 | 0372 | 0376 | 0381 | 0385 | 0390 | 0394 | 0399 | 0403 | 0408 | |
| 59 | 0412 | 0417 | 0422 | 0426 | 0431 | 0435 | 0440 | 0444 | 0449 | 0453 | |
| 9560 | 98 0458 | 0462 | 0467 | 0472 | 0476 | 0481 | 0485 | 0490 | 0494 | 0499 | |
| 61 | 0503 | 0508 | 0512 | 0517 | 0521 | 0526 | 0531 | 0535 | 0540 | 0544 | 5 |
| 62 | 0549 | 0553 | 0558 | 0562 | 0567 | 0571 | 0576 | 0581 | 0585 | 0590 | 1 0.5 |
| 63 | 0594 | 0599 | 0603 | 0608 | 0612 | 0617 | 0621 | 0626 | 0630 | 0635 | 2 1.0 |
| 64 | 0640 | 0644 | 0649 | 0653 | 0658 | 0662 | 0667 | 0671 | 0676 | 0680 | 3 1.5 |
| 65 | 98 0685 | 0690 | 0694 | 0699 | 0703 | 0708 | 0712 | 0717 | 0721 | 0726 | 4 2.0 |
| 66 | 0730 | 0735 | 0739 | 0744 | 0749 | 0753 | 0758 | 0762 | 0767 | 0771 | 5 2.5 |
| 67 | 0776 | 0780 | 0785 | 0789 | 0794 | 0798 | 0803 | 0808 | 0812 | 0817 | 6 3.0 |
| 68 | 0821 | 0826 | 0830 | 0835 | 0839 | 0844 | 0848 | 0853 | 0857 | 0862 | 7 3.5 |
| 69 | 0867 | 0871 | 0876 | 0880 | 0885 | 0889 | 0894 | 0898 | 0903 | 0907 | 8 4.0 |
| 9570 | 98 0912 | 0916 | 0921 | 0926 | 0931 | 0935 | 0940 | 0944 | 0949 | 0953 | 9 4.5 |
| 71 | 0958 | 0962 | 0967 | 0971 | 0976 | 0981 | 0985 | 0990 | 0994 | 0999 | |
| 72 | 1003 | 1007 | 1012 | 1016 | 1021 | 1025 | 1030 | 1034 | 1039 | 1044 | |
| 73 | 1048 | 1053 | 1057 | 1062 | 1066 | 1071 | 1075 | 1080 | 1084 | 1089 | |
| 74 | 1093 | 1098 | 1102 | 1107 | 1112 | 1116 | 1121 | 1125 | 1130 | 1134 | |
| 75 | 98 1139 | 1143 | 1148 | 1152 | 1157 | 1161 | 1166 | 1171 | 1175 | 1180 | |
| 76 | 1184 | 1189 | 1193 | 1198 | 1202 | 1207 | 1211 | 1216 | 1220 | 1225 | |
| 77 | 1229 | 1234 | 1239 | 1243 | 1248 | 1252 | 1257 | 1261 | 1266 | 1270 | |
| 78 | 1275 | 1279 | 1284 | 1288 | 1293 | 1298 | 1302 | 1307 | 1311 | 1316 | |
| 79 | 1320 | 1325 | 1329 | 1334 | 1338 | 1343 | 1347 | 1352 | 1356 | 1361 | |
| 9580 | 98 1366 | 1370 | 1375 | 1379 | 1384 | 1388 | 1393 | 1397 | 1402 | 1406 | |
| 81 | 1411 | 1415 | 1420 | 1424 | 1429 | 1434 | 1438 | 1443 | 1447 | 1452 | 4 |
| 82 | 1456 | 1461 | 1465 | 1470 | 1474 | 1479 | 1483 | 1488 | 1492 | 1497 | 1 0.4 |
| 83 | 1501 | 1506 | 1511 | 1515 | 1520 | 1524 | 1529 | 1533 | 1538 | 1542 | 2 0.8 |
| 84 | 1547 | 1551 | 1556 | 1560 | 1565 | 1569 | 1574 | 1579 | 1583 | 1588 | 3 1.2 |
| 85 | 98 1592 | 1597 | 1601 | 1606 | 1610 | 1615 | 1619 | 1624 | 1628 | 1633 | 4 1.6 |
| 86 | 1637 | 1642 | 1646 | 1651 | 1656 | 1660 | 1665 | 1669 | 1674 | 1678 | 5 2.0 |
| 87 | 1683 | 1687 | 1692 | 1696 | 1701 | 1705 | 1710 | 1714 | 1719 | 1723 | 6 2.4 |
| 88 | 1728 | 1733 | 1737 | 1742 | 1746 | 1751 | 1755 | 1760 | 1764 | 1769 | 7 2.8 |
| 89 | 1773 | 1778 | 1782 | 1787 | 1791 | 1796 | 1800 | 1805 | 1810 | 1814 | 8 3.2 |
| 9590 | 98 1819 | 1823 | 1828 | 1832 | 1837 | 1841 | 1846 | 1850 | 1855 | 1859 | 9 3.6 |
| 91 | 1864 | 1868 | 1873 | 1877 | 1882 | 1887 | 1891 | 1896 | 1900 | 1905 | |
| 92 | 1909 | 1914 | 1918 | 1923 | 1927 | 1932 | 1936 | 1941 | 1945 | 1950 | |
| 93 | 1954 | 1959 | 1963 | 1968 | 1973 | 1977 | 1982 | 1986 | 1991 | 1995 | |
| 94 | 2000 | 2004 | 2009 | 2013 | 2018 | 2022 | 2027 | 2031 | 2036 | 2040 | |
| 95 | 98 2045 | 2050 | 2054 | 2059 | 2063 | 2068 | 2072 | 2077 | 2081 | 2086 | |
| 96 | 2090 | 2095 | 2099 | 2104 | 2108 | 2113 | 2117 | 2122 | 2126 | 2131 | |
| 97 | 2135 | 2140 | 2145 | 2149 | 2154 | 2158 | 2163 | 2167 | 2172 | 2176 | |
| 98 | 2181 | 2185 | 2190 | 2194 | 2199 | 2203 | 2208 | 2212 | 2217 | 2221 | |
| 99 | 2226 | 2231 | 2235 | 2240 | 2244 | 2249 | 2253 | 2258 | 2262 | 2267 | |
| 9600 | 98 2271 | 2276 | 2280 | 2285 | 2289 | 2294 | 2298 | 2303 | 2307 | 2312 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 95500 | = 26° 31' 40" | | | | 95500 | = 2° 39' 10" | | | | S. 4,685 420 | T. 885 |
| 95600 | = 26 33 20 | | | | 95600 | = 2 39 20 | | | | 419 | 886 |
| 95700 | = 26 35 0 | | | | 95700 | = 2 39 30 | | | | 419 | 887 |
| 95800 | = 26 36 40 | | | | 95800 | = 2 39 40 | | | | 419 | 887 |
| 95900 | = 26 38 20 | | | | 95900 | = 2 39 50 | | | | 418 | 888 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|--------------|------|------|------|-------|-------------|------|------|------|----------|------------|
| 9600 | 98 2271 | 2276 | 2280 | 2285 | 2289 | 2294 | 2298 | 2303 | 2307 | 2312 | |
| 01 | 2316 | 2321 | 2326 | 2330 | 2335 | 2339 | 2344 | 2348 | 2353 | 2357 | |
| 02 | 2362 | 2366 | 2371 | 2375 | 2380 | 2384 | 2389 | 2393 | 2398 | 2402 | |
| 03 | 2407 | 2411 | 2416 | 2420 | 2425 | 2430 | 2434 | 2439 | 2443 | 2448 | |
| 04 | 2452 | 2457 | 2461 | 2466 | 2470 | 2475 | 2479 | 2484 | 2488 | 2493 | |
| 05 | 98 2497 | 2502 | 2506 | 2511 | 2515 | 2520 | 2524 | 2529 | 2534 | 2538 | |
| 06 | 2543 | 2547 | 2552 | 2556 | 2561 | 2565 | 2570 | 2574 | 2579 | 2583 | |
| 07 | 2588 | 2592 | 2597 | 2601 | 2606 | 2610 | 2615 | 2619 | 2624 | 2628 | |
| 08 | 2633 | 2638 | 2642 | 2647 | 2651 | 2656 | 2660 | 2665 | 2669 | 2674 | |
| 09 | 2678 | 2683 | 2687 | 2692 | 2696 | 2701 | 2705 | 2710 | 2714 | 2719 | |
| 9610 | 98 2723 | 2728 | 2732 | 2737 | 2741 | 2746 | 2751 | 2755 | 2760 | 2764 | |
| 11 | 2769 | 2773 | 2778 | 2782 | 2787 | 2791 | 2796 | 2800 | 2805 | 2809 | 5 |
| 12 | 2814 | 2818 | 2823 | 2827 | 2832 | 2836 | 2841 | 2845 | 2850 | 2854 | 1 0.5 |
| 13 | 2859 | 2863 | 2868 | 2872 | 2877 | 2882 | 2886 | 2891 | 2895 | 2900 | 2 1.0 |
| 14 | 2904 | 2909 | 2913 | 2918 | 2922 | 2927 | 2931 | 2936 | 2940 | 2945 | 3 1.5 |
| 15 | 98 2949 | 2954 | 2958 | 2963 | 2967 | 2972 | 2976 | 2981 | 2985 | 2990 | 4 2.0 |
| 16 | 2994 | 2999 | 3003 | 3008 | 3013 | 3017 | 3022 | 3026 | 3031 | 3035 | 5 2.5 |
| 17 | 3040 | 3044 | 3049 | 3053 | 3058 | 3062 | 3067 | 3071 | 3076 | 3080 | 6 3.0 |
| 18 | 3085 | 3089 | 3094 | 3098 | 3103 | 3107 | 3112 | 3116 | 3121 | 3125 | 7 3.5 |
| 19 | 3130 | 3134 | 3139 | 3143 | 3148 | 3152 | 3157 | 3162 | 3166 | 3171 | 8 4.0 |
| 9620 | 98 3175 | 3180 | 3184 | 3189 | 3193 | 3198 | 3202 | 3207 | 3211 | 3216 | 9 4.5 |
| 21 | 3220 | 3225 | 3229 | 3234 | 3238 | 3243 | 3247 | 3252 | 3256 | 3261 | |
| 22 | 3265 | 3270 | 3274 | 3279 | 3283 | 3288 | 3292 | 3297 | 3301 | 3306 | |
| 23 | 3310 | 3315 | 3320 | 3324 | 3329 | 3333 | 3338 | 3342 | 3347 | 3351 | |
| 24 | 3356 | 3360 | 3365 | 3369 | 3374 | 3378 | 3383 | 3387 | 3392 | 3396 | |
| 25 | 98 3401 | 3405 | 3410 | 3414 | 3419 | 3423 | 3428 | 3432 | 3437 | 3441 | |
| 26 | 3446 | 3450 | 3455 | 3459 | 3464 | 3468 | 3473 | 3477 | 3482 | 3486 | |
| 27 | 3491 | 3495 | 3500 | 3505 | 3509 | 3514 | 3518 | 3523 | 3527 | 3532 | |
| 28 | 3536 | 3541 | 3545 | 3550 | 3554 | 3559 | 3563 | 3568 | 3572 | 3577 | |
| 29 | 3581 | 3586 | 3590 | 3595 | 3599 | 3604 | 3608 | 3613 | 3617 | 3622 | |
| 9630 | 98 3626 | 3631 | 3635 | 3640 | 3644 | 3649 | 3653 | 3658 | 3662 | 3667 | |
| 31 | 3671 | 3676 | 3680 | 3685 | 3689 | 3694 | 3698 | 3703 | 3707 | 3712 | 4 |
| 32 | 3716 | 3721 | 3725 | 3730 | 3735 | 3739 | 3744 | 3748 | 3753 | 3757 | 1 0.4 |
| 33 | 3762 | 3766 | 3771 | 3775 | 3780 | 3784 | 3789 | 3793 | 3798 | 3802 | 2 0.8 |
| 34 | 3807 | 3811 | 3816 | 3820 | 3825 | 3829 | 3834 | 3838 | 3843 | 3847 | 3 1.2 |
| 35 | 98 3852 | 3856 | 3861 | 3865 | 3870 | 3874 | 3879 | 3883 | 3888 | 3892 | 4 1.6 |
| 36 | 3897 | 3901 | 3906 | 3910 | 3915 | 3919 | 3924 | 3928 | 3933 | 3937 | 5 2.0 |
| 37 | 3942 | 3946 | 3951 | 3955 | 3960 | 3964 | 3969 | 3973 | 3978 | 3982 | 6 2.4 |
| 38 | 3987 | 3991 | 3996 | 4000 | 4005 | 4009 | 4014 | 4018 | 4023 | 4027 | 7 2.8 |
| 39 | 4032 | 4036 | 4041 | 4045 | 4050 | 4055 | 4059 | 4064 | 4068 | 4073 | 8 3.2 |
| 9640 | 98 4077 | 4082 | 4086 | 4091 | 4095 | 4100 | 4104 | 4109 | 4113 | 4118 | 9 3.6 |
| 41 | 4122 | 4127 | 4131 | 4136 | 4140 | 4145 | 4149 | 4154 | 4158 | 4163 | |
| 42 | 4167 | 4172 | 4176 | 4181 | 4185 | 4190 | 4194 | 4199 | 4203 | 4208 | |
| 43 | 4212 | 4217 | 4221 | 4226 | 4230 | 4235 | 4239 | 4244 | 4248 | 4253 | |
| 44 | 4257 | 4262 | 4266 | 4271 | 4275 | 4280 | 4284 | 4289 | 4293 | 4298 | |
| 45 | 98 4302 | 4307 | 4311 | 4316 | 4320 | 4325 | 4329 | 4334 | 4338 | 4343 | |
| 46 | 4347 | 4352 | 4356 | 4361 | 4365 | 4370 | 4374 | 4379 | 4383 | 4388 | |
| 47 | 4392 | 4397 | 4401 | 4406 | 4410 | 4415 | 4419 | 4424 | 4428 | 4433 | |
| 48 | 4437 | 4442 | 4446 | 4451 | 4455 | 4460 | 4464 | 4469 | 4473 | 4478 | |
| 49 | 4482 | 4487 | 4491 | 4496 | 4500 | 4505 | 4509 | 4514 | 4518 | 4523 | |
| 9650 | 98 4527 | 4532 | 4536 | 4541 | 4545 | 4550 | 4554 | 4559 | 4563 | 4568 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 96000 | = 26° 40' 0" | | | | 96000 | = 2° 40' 0" | | | | S. 4.685 | 418 T. 889 |
| 96100 | = 26 41 40 | | | | 96100 | = 2 40 10 | | | | 418 | 889 |
| 96200 | = 26 43 20 | | | | 96200 | = 2 40 20 | | | | 417 | 890 |
| 96300 | = 26 45 0 | | | | 96300 | = 2 40 30 | | | | 417 | 891 |
| 96400 | = 26 46 40 | | | | 96400 | = 2 40 40 | | | | 417 | 891 |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|---------------|------|------|------|-------|--------------|----------|------|--------|------|-------|
| 9650 | 98 4527 | 4532 | 4536 | 4541 | 4545 | 4550 | 4554 | 4559 | 4563 | 4568 | |
| 51 | 4572 | 4577 | 4581 | 4586 | 4590 | 4595 | 4599 | 4604 | 4608 | 4613 | |
| 52 | 4617 | 4622 | 4626 | 4631 | 4635 | 4640 | 4644 | 4649 | 4653 | 4658 | |
| 53 | 4662 | 4667 | 4671 | 4676 | 4680 | 4685 | 4689 | 4694 | 4698 | 4703 | |
| 54 | 4707 | 4712 | 4716 | 4721 | 4725 | 4730 | 4734 | 4739 | 4743 | 4748 | |
| 55 | 98 4752 | 4757 | 4761 | 4766 | 4770 | 4775 | 4779 | 4784 | 4788 | 4793 | |
| 56 | 4797 | 4802 | 4806 | 4811 | 4815 | 4820 | 4824 | 4829 | 4833 | 4838 | |
| 57 | 4842 | 4847 | 4851 | 4856 | 4860 | 4865 | 4869 | 4874 | 4878 | 4883 | |
| 58 | 4887 | 4892 | 4896 | 4901 | 4905 | 4910 | 4914 | 4919 | 4923 | 4928 | |
| 59 | 4932 | 4937 | 4941 | 4946 | 4950 | 4955 | 4959 | 4964 | 4968 | 4973 | |
| 9660 | 98 4977 | 4982 | 4986 | 4991 | 4995 | 5000 | 5004 | 5009 | 5013 | 5018 | |
| 61 | 5022 | 5027 | 5031 | 5036 | 5040 | 5045 | 5049 | 5054 | 5058 | 5063 | 5 |
| 62 | 5067 | 5072 | 5076 | 5081 | 5085 | 5090 | 5094 | 5098 | 5103 | 5107 | 1 0.5 |
| 63 | 5112 | 5116 | 5121 | 5125 | 5130 | 5134 | 5139 | 5143 | 5148 | 5152 | 2 1.0 |
| 64 | 5157 | 5161 | 5166 | 5170 | 5175 | 5179 | 5184 | 5188 | 5193 | 5197 | 3 1.5 |
| 65 | 98 5202 | 5206 | 5211 | 5215 | 5220 | 5224 | 5229 | 5233 | 5238 | 5242 | 4 2.0 |
| 66 | 5247 | 5251 | 5256 | 5260 | 5265 | 5269 | 5274 | 5278 | 5283 | 5287 | 5 2.5 |
| 67 | 5292 | 5296 | 5301 | 5305 | 5310 | 5314 | 5319 | 5323 | 5328 | 5332 | 6 3.0 |
| 68 | 5337 | 5341 | 5346 | 5350 | 5355 | 5359 | 5364 | 5368 | 5373 | 5377 | 7 3.5 |
| 69 | 5382 | 5386 | 5391 | 5395 | 5400 | 5404 | 5409 | 5413 | 5417 | 5422 | 8 4.0 |
| 9670 | 98 5426 | 5431 | 5435 | 5440 | 5444 | 5449 | 5453 | 5458 | 5462 | 5467 | 9 4.5 |
| 71 | 5471 | 5476 | 5480 | 5485 | 5489 | 5494 | 5498 | 5503 | 5507 | 5512 | |
| 72 | 5516 | 5521 | 5525 | 5530 | 5534 | 5539 | 5543 | 5548 | 5552 | 5557 | |
| 73 | 5561 | 5566 | 5570 | 5575 | 5579 | 5584 | 5588 | 5593 | 5597 | 5602 | |
| 74 | 5606 | 5611 | 5615 | 5620 | 5624 | 5629 | 5633 | 5638 | 5642 | 5646 | |
| 75 | 98 5651 | 5655 | 5660 | 5664 | 5669 | 5673 | 5678 | 5682 | 5687 | 5691 | |
| 76 | 5696 | 5700 | 5705 | 5709 | 5714 | 5718 | 5723 | 5727 | 5732 | 5736 | |
| 77 | 5741 | 5745 | 5750 | 5754 | 5759 | 5763 | 5768 | 5772 | 5777 | 5781 | |
| 78 | 5786 | 5790 | 5795 | 5799 | 5804 | 5808 | 5813 | 5817 | 5822 | 5826 | |
| 79 | 5830 | 5835 | 5839 | 5844 | 5848 | 5853 | 5857 | 5862 | 5866 | 5871 | |
| 9680 | 98 5875 | 5880 | 5884 | 5889 | 5893 | 5898 | 5902 | 5907 | 5911 | 5916 | |
| 81 | 5920 | 5925 | 5929 | 5934 | 5938 | 5943 | 5947 | 5952 | 5956 | 5961 | 4 |
| 82 | 5965 | 5970 | 5974 | 5979 | 5983 | 5988 | 5992 | 5996 | 6001 | 6005 | 1 0.4 |
| 83 | 6010 | 6014 | 6019 | 6023 | 6028 | 6032 | 6037 | 6041 | 6046 | 6050 | 2 0.8 |
| 84 | 6055 | 6059 | 6064 | 6068 | 6073 | 6077 | 6082 | 6086 | 6091 | 6095 | 3 1.2 |
| 85 | 98 6100 | 6104 | 6109 | 6113 | 6118 | 6122 | 6127 | 6131 | 6135 | 6140 | 4 1.6 |
| 86 | 6144 | 6149 | 6153 | 6158 | 6162 | 6167 | 6171 | 6176 | 6180 | 6185 | 5 2.0 |
| 87 | 6189 | 6194 | 6198 | 6203 | 6207 | 6212 | 6216 | 6221 | 6225 | 6230 | 6 2.4 |
| 88 | 6234 | 6239 | 6243 | 6248 | 6252 | 6257 | 6261 | 6266 | 6270 | 6274 | 7 2.8 |
| 89 | 6279 | 6283 | 6288 | 6292 | 6297 | 6301 | 6306 | 6310 | 6315 | 6319 | 8 3.2 |
| 9690 | 98 6324 | 6328 | 6333 | 6337 | 6342 | 6346 | 6351 | 6355 | 6360 | 6364 | 9 3.6 |
| 91 | 6369 | 6373 | 6378 | 6382 | 6387 | 6391 | 6395 | 6400 | 6404 | 6409 | |
| 92 | 6413 | 6418 | 6422 | 6427 | 6431 | 6436 | 6440 | 6445 | 6449 | 6454 | |
| 93 | 6458 | 6463 | 6467 | 6472 | 6476 | 6481 | 6485 | 6490 | 6494 | 6499 | |
| 94 | 6503 | 6507 | 6512 | 6516 | 6521 | 6525 | 6530 | 6534 | 6539 | 6543 | |
| 95 | 98 6548 | 6552 | 6557 | 6561 | 6566 | 6570 | 6575 | 6579 | 6584 | 6588 | |
| 96 | 6593 | 6597 | 6602 | 6606 | 6611 | 6615 | 6619 | 6624 | 6628 | 6633 | |
| 97 | 6637 | 6642 | 6646 | 6651 | 6655 | 6660 | 6664 | 6669 | 6673 | 6678 | |
| 98 | 6682 | 6687 | 6691 | 6696 | 6700 | 6705 | 6709 | 6714 | 6718 | 6722 | |
| 99 | 6727 | 6731 | 6736 | 6740 | 6745 | 6749 | 6754 | 6758 | 6763 | 6767 | |
| 9700 | 98 6772 | 6776 | 6781 | 6785 | 6790 | 6794 | 6799 | 6803 | 6808 | 6812 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 96500 | = 26° 48' 20" | | | | 96500 | = 2° 40' 50" | S. 4,685 | 416 | T. 892 | | |
| 96600 | = 26 50 0 | | | | 96600 | = 2 41 0 | | 416 | 893 | | |
| 96700 | = 26 51 40 | | | | 96700 | = 2 41 10 | | 416 | 893 | | |
| 96800 | = 26 53 20 | | | | 96800 | = 2 41 20 | | 415 | 894 | | |
| 96900 | = 26 55 0 | | | | 96900 | = 2 41 30 | | 415 | 895 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|----------------------|------|------|------|---------------------|------|------|----------|------|--------|-------|
| 9700 | 98 6772 | 6776 | 6781 | 6785 | 6790 | 6794 | 6799 | 6803 | 6808 | 6812 | |
| 01 | 6817 | 6821 | 6825 | 6830 | 6834 | 6839 | 6843 | 6848 | 6852 | 6857 | |
| 02 | 6861 | 6866 | 6870 | 6875 | 6879 | 6884 | 6888 | 6893 | 6897 | 6902 | |
| 03 | 6906 | 6911 | 6915 | 6919 | 6924 | 6928 | 6933 | 6937 | 6942 | 6946 | |
| 04 | 6951 | 6955 | 6960 | 6964 | 6969 | 6973 | 6978 | 6982 | 6987 | 6991 | |
| 05 | 98 6996 | 7000 | 7004 | 7009 | 7013 | 7018 | 7022 | 7027 | 7031 | 7036 | |
| 06 | 7040 | 7045 | 7049 | 7054 | 7058 | 7063 | 7067 | 7072 | 7076 | 7081 | |
| 07 | 7085 | 7090 | 7094 | 7098 | 7103 | 7107 | 7112 | 7116 | 7121 | 7125 | |
| 08 | 7130 | 7134 | 7139 | 7143 | 7148 | 7152 | 7157 | 7161 | 7166 | 7170 | |
| 09 | 7175 | 7179 | 7183 | 7188 | 7192 | 7197 | 7201 | 7206 | 7210 | 7215 | |
| 9710 | 98 7219 | 7224 | 7228 | 7233 | 7237 | 7242 | 7246 | 7251 | 7255 | 7259 | |
| 11 | 7264 | 7268 | 7273 | 7277 | 7282 | 7286 | 7291 | 7295 | 7300 | 7304 | 5 |
| 12 | 7309 | 7313 | 7318 | 7322 | 7327 | 7331 | 7336 | 7340 | 7344 | 7349 | 1 0.5 |
| 13 | 7353 | 7358 | 7362 | 7367 | 7371 | 7376 | 7380 | 7385 | 7389 | 7394 | 2 1.0 |
| 14 | 98 7398 | 7403 | 7407 | 7412 | 7416 | 7420 | 7425 | 7429 | 7434 | 7438 | 3 1.5 |
| 15 | 7443 | 7447 | 7452 | 7456 | 7461 | 7465 | 7470 | 7474 | 7479 | 7483 | 4 2.0 |
| 16 | 7488 | 7492 | 7496 | 7501 | 7505 | 7510 | 7514 | 7519 | 7523 | 7528 | 5 2.5 |
| 17 | 7532 | 7537 | 7541 | 7546 | 7550 | 7555 | 7559 | 7563 | 7568 | 7572 | 6 3.0 |
| 18 | 7577 | 7581 | 7586 | 7590 | 7595 | 7599 | 7604 | 7608 | 7613 | 7617 | 7 3.5 |
| 19 | 7622 | 7626 | 7631 | 7635 | 7639 | 7644 | 7648 | 7653 | 7657 | 7662 | 8 4.0 |
| 9720 | 98 7666 | 7671 | 7675 | 7680 | 7684 | 7689 | 7693 | 7698 | 7702 | 7706 | 9 4.5 |
| 21 | 7711 | 7715 | 7720 | 7724 | 7729 | 7733 | 7738 | 7742 | 7747 | 7751 | |
| 22 | 7756 | 7760 | 7765 | 7769 | 7773 | 7778 | 7782 | 7787 | 7791 | 7796 | |
| 23 | 7800 | 7805 | 7809 | 7814 | 7818 | 7823 | 7827 | 7832 | 7836 | 7840 | |
| 24 | 98 7845 | 7849 | 7854 | 7858 | 7863 | 7867 | 7872 | 7876 | 7881 | 7885 | |
| 25 | 7890 | 7894 | 7899 | 7903 | 7907 | 7912 | 7916 | 7921 | 7925 | 7930 | |
| 26 | 7934 | 7939 | 7943 | 7948 | 7952 | 7957 | 7961 | 7966 | 7970 | 7974 | |
| 27 | 7979 | 7983 | 7988 | 7992 | 7997 | 8001 | 8006 | 8010 | 8015 | 8019 | |
| 28 | 8024 | 8028 | 8032 | 8037 | 8041 | 8046 | 8050 | 8055 | 8059 | 8064 | |
| 29 | 8068 | 8073 | 8077 | 8082 | 8086 | 8091 | 8095 | 8099 | 8104 | 8108 | |
| 9730 | 98 8113 | 8117 | 8122 | 8126 | 8131 | 8135 | 8140 | 8144 | 8149 | 8153 | |
| 31 | 8157 | 8162 | 8166 | 8171 | 8175 | 8180 | 8184 | 8189 | 8193 | 8198 | 4 |
| 32 | 8202 | 8207 | 8211 | 8215 | 8220 | 8224 | 8229 | 8233 | 8238 | 8242 | 1 0.4 |
| 33 | 8247 | 8251 | 8256 | 8260 | 8265 | 8269 | 8273 | 8278 | 8282 | 8287 | 2 0.8 |
| 34 | 98 8291 | 8296 | 8300 | 8305 | 8309 | 8314 | 8318 | 8323 | 8327 | 8331 | 3 1.2 |
| 35 | 8336 | 8340 | 8345 | 8349 | 8354 | 8358 | 8363 | 8367 | 8372 | 8376 | 4 1.6 |
| 36 | 8381 | 8385 | 8389 | 8394 | 8398 | 8403 | 8407 | 8412 | 8416 | 8421 | 5 2.0 |
| 37 | 8425 | 8430 | 8434 | 8439 | 8443 | 8447 | 8452 | 8456 | 8461 | 8465 | 6 2.4 |
| 38 | 8470 | 8474 | 8479 | 8483 | 8488 | 8492 | 8497 | 8501 | 8505 | 8510 | 7 2.8 |
| 39 | 8514 | 8519 | 8523 | 8528 | 8532 | 8537 | 8541 | 8546 | 8550 | 8554 | 8 3.2 |
| 9740 | 98 8559 | 8563 | 8568 | 8572 | 8577 | 8581 | 8586 | 8590 | 8595 | 8599 | 9 3.6 |
| 41 | 8604 | 8608 | 8612 | 8617 | 8621 | 8626 | 8630 | 8635 | 8639 | 8644 | |
| 42 | 8648 | 8653 | 8657 | 8661 | 8666 | 8670 | 8675 | 8679 | 8684 | 8688 | |
| 43 | 8693 | 8697 | 8702 | 8706 | 8711 | 8715 | 8719 | 8724 | 8728 | 8733 | |
| 44 | 98 8737 | 8742 | 8746 | 8751 | 8755 | 8760 | 8764 | 8768 | 8773 | 8777 | |
| 45 | 8782 | 8786 | 8791 | 8795 | 8800 | 8804 | 8809 | 8813 | 8817 | 8822 | |
| 46 | 8826 | 8831 | 8835 | 8840 | 8844 | 8849 | 8853 | 8858 | 8862 | 8867 | |
| 47 | 8871 | 8875 | 8880 | 8884 | 8889 | 8893 | 8898 | 8902 | 8907 | 8911 | |
| 48 | 8916 | 8920 | 8924 | 8929 | 8933 | 8938 | 8942 | 8947 | 8951 | 8956 | |
| 49 | 8960 | 8965 | 8969 | 8973 | 8978 | 8982 | 8987 | 8991 | 8996 | 9000 | |
| 9750 | 98 9005 | 9009 | 9014 | 9018 | 9022 | 9027 | 9031 | 9036 | 9040 | 9045 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| | 97000" = 26° 56' 40" | | | | 97000" = 2° 41' 40" | | | S. 4,685 | 415 | T. 895 | |
| | 97100 = 26 58 20 | | | | 97100 = 2 41 50 | | | | 414 | 896 | |
| | 97200 = 27 0 0 | | | | 97200 = 2 42 0 | | | | 414 | 897 | |
| | 97300 = 27 1 0 | | | | 97300 = 2 42 10 | | | | 414 | 897 | |
| | 97400 = 27 3 20 | | | | 97400 = 2 42 20 | | | | 413 | 898 | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-------------|------|------|------|-------|--------------|----------|------|--------|------|-------|
| 9750 | 98 9005 | 9009 | 9014 | 9018 | 9022 | 9027 | 9031 | 9036 | 9040 | 9045 | |
| 51 | 9049 | 9054 | 9058 | 9063 | 9067 | 9071 | 9076 | 9080 | 9085 | 9089 | |
| 52 | 9094 | 9098 | 9103 | 9107 | 9112 | 9116 | 9120 | 9125 | 9129 | 9134 | |
| 53 | 9138 | 9143 | 9147 | 9152 | 9156 | 9160 | 9165 | 9169 | 9174 | 9178 | |
| 54 | 9183 | 9187 | 9192 | 9196 | 9201 | 9205 | 9209 | 9214 | 9218 | 9223 | |
| 55 | 9227 | 9232 | 9236 | 9241 | 9245 | 9250 | 9254 | 9258 | 9263 | 9267 | |
| 56 | 9272 | 9276 | 9281 | 9285 | 9290 | 9294 | 9299 | 9303 | 9307 | 9312 | |
| 57 | 9316 | 9321 | 9325 | 9330 | 9334 | 9339 | 9343 | 9347 | 9352 | 9356 | |
| 58 | 9361 | 9365 | 9370 | 9374 | 9379 | 9383 | 9388 | 9392 | 9396 | 9401 | |
| 59 | 9405 | 9410 | 9414 | 9419 | 9423 | 9428 | 9432 | 9436 | 9441 | 9445 | |
| 9760 | 98 9450 | 9454 | 9459 | 9463 | 9468 | 9472 | 9477 | 9481 | 9485 | 9490 | |
| 61 | 9494 | 9499 | 9503 | 9508 | 9512 | 9517 | 9521 | 9525 | 9530 | 9534 | 5 |
| 62 | 9539 | 9543 | 9548 | 9552 | 9557 | 9561 | 9565 | 9570 | 9574 | 9579 | 1 0.5 |
| 63 | 9583 | 9588 | 9592 | 9597 | 9601 | 9606 | 9610 | 9614 | 9619 | 9623 | 2 1.0 |
| 64 | 9628 | 9632 | 9637 | 9641 | 9646 | 9650 | 9654 | 9659 | 9663 | 9668 | 3 1.5 |
| 65 | 9672 | 9677 | 9681 | 9686 | 9690 | 9694 | 9699 | 9703 | 9708 | 9712 | 4 2.0 |
| 66 | 9717 | 9721 | 9726 | 9730 | 9735 | 9739 | 9743 | 9748 | 9752 | 9757 | 5 2.5 |
| 67 | 9761 | 9766 | 9770 | 9775 | 9779 | 9783 | 9788 | 9792 | 9797 | 9801 | 6 3.0 |
| 68 | 9806 | 9810 | 9815 | 9819 | 9823 | 9828 | 9832 | 9837 | 9841 | 9846 | 7 3.5 |
| 69 | 9850 | 9855 | 9859 | 9863 | 9868 | 9872 | 9877 | 9881 | 9886 | 9890 | 8 4.0 |
| 9770 | 98 9895 | 9899 | 9903 | 9908 | 9912 | 9917 | 9921 | 9926 | 9930 | 9935 | 9 4.5 |
| 71 | 9939 | 9943 | 9948 | 9952 | 9957 | 9961 | 9966 | 9970 | 9975 | 9979 | |
| 72 | 9983 | 9988 | 9992 | 9997 | 0001 | 0006 | 0010 | 0015 | 0019 | 0023 | |
| 73 | 99 0028 | 0032 | 0037 | 0041 | 0046 | 0050 | 0055 | 0059 | 0063 | 0068 | |
| 74 | 0072 | 0077 | 0081 | 0086 | 0090 | 0095 | 0099 | 0103 | 0108 | 0112 | |
| 75 | 99 0117 | 0121 | 0126 | 0130 | 0135 | 0139 | 0143 | 0148 | 0152 | 0157 | |
| 76 | 0161 | 0166 | 0170 | 0175 | 0179 | 0183 | 0188 | 0192 | 0197 | 0201 | |
| 77 | 0206 | 0210 | 0214 | 0219 | 0223 | 0228 | 0232 | 0237 | 0241 | 0246 | |
| 78 | 0250 | 0254 | 0259 | 0263 | 0268 | 0272 | 0277 | 0281 | 0286 | 0290 | |
| 79 | 0294 | 0299 | 0303 | 0308 | 0312 | 0317 | 0321 | 0326 | 0330 | 0334 | |
| 9780 | 99 0339 | 0343 | 0348 | 0352 | 0357 | 0361 | 0365 | 0370 | 0374 | 0379 | 4 |
| 81 | 0383 | 0388 | 0392 | 0397 | 0401 | 0405 | 0410 | 0414 | 0419 | 0423 | 1 0.4 |
| 82 | 0428 | 0432 | 0437 | 0441 | 0445 | 0450 | 0454 | 0459 | 0463 | 0468 | 2 0.8 |
| 83 | 0472 | 0476 | 0481 | 0485 | 0490 | 0494 | 0499 | 0503 | 0508 | 0512 | 3 1.2 |
| 84 | 0516 | 0521 | 0525 | 0530 | 0534 | 0539 | 0543 | 0548 | 0552 | 0556 | 4 1.6 |
| 85 | 99 0561 | 0565 | 0570 | 0574 | 0579 | 0583 | 0587 | 0592 | 0596 | 0601 | 5 2.0 |
| 86 | 0605 | 0610 | 0614 | 0619 | 0623 | 0627 | 0632 | 0636 | 0641 | 0645 | 6 2.4 |
| 87 | 0650 | 0654 | 0658 | 0663 | 0667 | 0672 | 0676 | 0681 | 0685 | 0690 | 7 2.8 |
| 88 | 0694 | 0698 | 0703 | 0707 | 0712 | 0716 | 0721 | 0725 | 0729 | 0734 | 8 3.2 |
| 89 | 0738 | 0743 | 0747 | 0752 | 0756 | 0761 | 0765 | 0769 | 0774 | 0778 | 9 3.6 |
| 9790 | 99 0783 | 0787 | 0792 | 0796 | 0800 | 0805 | 0809 | 0814 | 0818 | 0823 | |
| 91 | 0827 | 0831 | 0836 | 0840 | 0845 | 0849 | 0854 | 0858 | 0863 | 0867 | |
| 92 | 0871 | 0876 | 0880 | 0885 | 0889 | 0894 | 0898 | 0902 | 0907 | 0911 | |
| 93 | 0916 | 0920 | 0925 | 0929 | 0933 | 0938 | 0942 | 0947 | 0951 | 0956 | |
| 94 | 0960 | 0965 | 0969 | 0973 | 0978 | 0982 | 0987 | 0991 | 0996 | 1000 | |
| 95 | 99 1004 | 1009 | 1013 | 1018 | 1022 | 1027 | 1031 | 1035 | 1040 | 1044 | |
| 96 | 1049 | 1053 | 1058 | 1062 | 1067 | 1071 | 1075 | 1080 | 1084 | 1089 | |
| 97 | 1093 | 1098 | 1102 | 1106 | 1111 | 1115 | 1120 | 1124 | 1129 | 1133 | |
| 98 | 1137 | 1142 | 1146 | 1151 | 1155 | 1160 | 1164 | 1168 | 1173 | 1177 | |
| 99 | 1182 | 1186 | 1191 | 1195 | 1199 | 1204 | 1208 | 1213 | 1217 | 1222 | |
| 9800 | 99 1226 | 1231 | 1235 | 1239 | 1244 | 1248 | 1253 | 1257 | 1262 | 1266 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 97500 | = 27° 5' 0" | | | | 97505 | = 2° 42' 30" | S. 4.685 | 413 | T. 898 | | |
| 97600 | = 27 6 40 | | | | 97605 | = 2 42 40 | | 413 | 899 | | |
| 97700 | = 27 8 20 | | | | 97705 | = 2 42 50 | | 412 | 900 | | |
| 97800 | = 27 10 0 | | | | 97805 | = 2 43 0 | | 412 | 900 | | |
| 97900 | = 27 11 40 | | | | 97905 | = 2 43 10 | | 412 | 901 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-------------|------|------|------|-------|------------|----------|------|--------|------|-------|
| 9800 | 99 1226 | 1231 | 1235 | 1239 | 1244 | 1248 | 1253 | 1257 | 1262 | 1266 | |
| 01 | 1270 | 1275 | 1279 | 1284 | 1288 | 1293 | 1297 | 1301 | 1306 | 1310 | |
| 02 | 1315 | 1319 | 1324 | 1328 | 1332 | 1337 | 1341 | 1346 | 1350 | 1355 | |
| 03 | 1359 | 1363 | 1368 | 1372 | 1377 | 1381 | 1386 | 1390 | 1394 | 1399 | |
| 04 | 1403 | 1408 | 1412 | 1417 | 1421 | 1425 | 1430 | 1434 | 1439 | 1443 | |
| 05 | 99 1448 | 1452 | 1456 | 1461 | 1465 | 1470 | 1474 | 1479 | 1483 | 1487 | |
| 06 | 1492 | 1496 | 1501 | 1505 | 1510 | 1514 | 1518 | 1523 | 1527 | 1532 | |
| 07 | 1536 | 1541 | 1545 | 1549 | 1554 | 1558 | 1563 | 1567 | 1572 | 1576 | |
| 08 | 1580 | 1585 | 1589 | 1594 | 1598 | 1603 | 1607 | 1611 | 1616 | 1620 | |
| 09 | 1625 | 1629 | 1634 | 1638 | 1642 | 1647 | 1651 | 1656 | 1660 | 1665 | |
| 9810 | 99 1669 | 1673 | 1678 | 1682 | 1687 | 1691 | 1696 | 1700 | 1704 | 1709 | |
| 11 | 1713 | 1718 | 1722 | 1727 | 1731 | 1735 | 1740 | 1744 | 1749 | 1753 | 5 |
| 12 | 1758 | 1762 | 1766 | 1771 | 1775 | 1780 | 1784 | 1789 | 1793 | 1797 | 1 0.5 |
| 13 | 1802 | 1806 | 1811 | 1815 | 1820 | 1824 | 1828 | 1833 | 1837 | 1842 | 2 1.0 |
| 14 | 1846 | 1850 | 1855 | 1859 | 1864 | 1868 | 1873 | 1877 | 1881 | 1886 | 3 1.5 |
| 15 | 99 1890 | 1895 | 1899 | 1904 | 1908 | 1912 | 1917 | 1921 | 1926 | 1930 | 4 2.0 |
| 16 | 1935 | 1939 | 1943 | 1948 | 1952 | 1957 | 1961 | 1966 | 1970 | 1974 | 5 2.5 |
| 17 | 1979 | 1983 | 1988 | 1992 | 1996 | 2001 | 2005 | 2010 | 2014 | 2019 | 6 3.0 |
| 18 | 2023 | 2027 | 2032 | 2036 | 2041 | 2045 | 2050 | 2054 | 2058 | 2063 | 7 3.5 |
| 19 | 2067 | 2072 | 2076 | 2081 | 2085 | 2089 | 2094 | 2098 | 2103 | 2107 | 8 4.0 |
| 9820 | 99 2111 | 2116 | 2120 | 2125 | 2129 | 2134 | 2138 | 2142 | 2147 | 2151 | 9 4.5 |
| 21 | 2156 | 2160 | 2165 | 2169 | 2173 | 2178 | 2182 | 2187 | 2191 | 2196 | |
| 22 | 2200 | 2204 | 2209 | 2213 | 2218 | 2222 | 2226 | 2231 | 2235 | 2240 | |
| 23 | 2244 | 2249 | 2253 | 2257 | 2262 | 2266 | 2271 | 2275 | 2280 | 2284 | |
| 24 | 2288 | 2293 | 2297 | 2302 | 2306 | 2310 | 2315 | 2319 | 2324 | 2328 | |
| 25 | 99 2333 | 2337 | 2341 | 2346 | 2350 | 2355 | 2359 | 2364 | 2368 | 2372 | |
| 26 | 2377 | 2381 | 2386 | 2390 | 2394 | 2399 | 2403 | 2408 | 2412 | 2417 | |
| 27 | 2421 | 2425 | 2430 | 2434 | 2439 | 2443 | 2447 | 2452 | 2456 | 2461 | |
| 28 | 2465 | 2470 | 2474 | 2478 | 2483 | 2487 | 2492 | 2496 | 2500 | 2505 | |
| 29 | 2509 | 2514 | 2518 | 2523 | 2527 | 2531 | 2536 | 2540 | 2545 | 2549 | |
| 9830 | 99 2554 | 2558 | 2562 | 2567 | 2571 | 2576 | 2580 | 2584 | 2589 | 2593 | |
| 31 | 2598 | 2602 | 2607 | 2611 | 2615 | 2620 | 2624 | 2629 | 2633 | 2637 | 4 |
| 32 | 2642 | 2646 | 2651 | 2655 | 2660 | 2664 | 2668 | 2673 | 2677 | 2682 | 1 0.4 |
| 33 | 2686 | 2690 | 2695 | 2699 | 2704 | 2708 | 2713 | 2717 | 2721 | 2726 | 2 0.8 |
| 34 | 2730 | 2735 | 2739 | 2743 | 2748 | 2752 | 2757 | 2761 | 2766 | 2770 | 3 1.2 |
| 35 | 99 2774 | 2779 | 2783 | 2788 | 2792 | 2796 | 2801 | 2805 | 2810 | 2814 | 4 1.6 |
| 36 | 2819 | 2823 | 2827 | 2832 | 2836 | 2841 | 2845 | 2849 | 2854 | 2858 | 5 2.0 |
| 37 | 2863 | 2867 | 2872 | 2876 | 2880 | 2885 | 2889 | 2894 | 2898 | 2902 | 6 2.4 |
| 38 | 2907 | 2911 | 2916 | 2920 | 2924 | 2929 | 2933 | 2938 | 2942 | 2947 | 7 2.8 |
| 39 | 2951 | 2955 | 2960 | 2964 | 2969 | 2973 | 2977 | 2982 | 2986 | 2991 | 8 3.2 |
| 9840 | 99 2995 | 3000 | 3004 | 3008 | 3013 | 3017 | 3022 | 3026 | 3030 | 3035 | 9 3.6 |
| 41 | 3039 | 3044 | 3048 | 3052 | 3057 | 3061 | 3066 | 3070 | 3075 | 3079 | |
| 42 | 3083 | 3088 | 3092 | 3097 | 3101 | 3105 | 3110 | 3114 | 3119 | 3123 | |
| 43 | 3127 | 3132 | 3136 | 3141 | 3145 | 3150 | 3154 | 3158 | 3163 | 3167 | |
| 44 | 3172 | 3176 | 3180 | 3185 | 3189 | 3194 | 3198 | 3202 | 3207 | 3211 | |
| 45 | 99 3216 | 3220 | 3225 | 3229 | 3233 | 3238 | 3242 | 3247 | 3251 | 3255 | |
| 46 | 3260 | 3264 | 3269 | 3273 | 3277 | 3282 | 3286 | 3291 | 3295 | 3300 | |
| 47 | 3304 | 3308 | 3313 | 3317 | 3322 | 3326 | 3330 | 3335 | 3339 | 3344 | |
| 48 | 3348 | 3352 | 3357 | 3361 | 3366 | 3370 | 3374 | 3379 | 3383 | 3388 | |
| 49 | 3392 | 3397 | 3401 | 3405 | 3410 | 3414 | 3419 | 3423 | 3427 | 3432 | |
| 9850 | 99 3436 | 3441 | 3445 | 3449 | 3454 | 3458 | 3463 | 3467 | 3472 | 3476 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 9800" | 27° 13' 20" | | | | 9800" | 2° 43' 20" | S. 4,685 | 411 | T. 902 | | |
| 98100 | 27 15 0 | | | | 9810 | 2 43 30 | | 411 | 902 | | |
| 98200 | 27 16 40 | | | | 9820 | 2 43 40 | | 411 | 903 | | |
| 98300 | 27 18 20 | | | | 9830 | 2 43 50 | | 410 | 904 | | |
| 98400 | 27 20 0 | | | | 9840 | 2 44 0 | | 410 | 905 | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|--------------------|------|------|---------------------|------|------|------|-------|
| 9900 | 99 5635 | 5640 | 5644 | 5648 | 5653 | 5657 | 5662 | 5666 | 5670 | 5675 | |
| 01 | 5679 | 5683 | 5688 | 5692 | 5697 | 5701 | 5705 | 5710 | 5714 | 5719 | |
| 02 | 5723 | 5727 | 5732 | 5736 | 5740 | 5745 | 5749 | 5754 | 5758 | 5762 | |
| 03 | 5767 | 5771 | 5776 | 5780 | 5784 | 5789 | 5793 | 5797 | 5802 | 5806 | |
| 04 | 5811 | 5815 | 5819 | 5824 | 5828 | 5833 | 5837 | 5841 | 5846 | 5850 | |
| 05 | 99 5854 | 5859 | 5863 | 5868 | 5872 | 5876 | 5881 | 5885 | 5890 | 5894 | |
| 06 | 5898 | 5903 | 5907 | 5911 | 5916 | 5920 | 5925 | 5929 | 5933 | 5938 | |
| 07 | 5942 | 5947 | 5951 | 5955 | 5960 | 5964 | 5968 | 5973 | 5977 | 5982 | |
| 08 | 5986 | 5990 | 5995 | 5999 | 6004 | 6008 | 6012 | 6017 | 6021 | 6025 | |
| 09 | 6030 | 6034 | 6039 | 6043 | 6047 | 6052 | 6056 | 6061 | 6065 | 6069 | |
| 9910 | 99 6074 | 6078 | 6082 | 6087 | 6091 | 6096 | 6100 | 6104 | 6109 | 6113 | |
| 11 | 6117 | 6122 | 6126 | 6131 | 6135 | 6139 | 6144 | 6148 | 6153 | 6157 | 5 |
| 12 | 6161 | 6166 | 6170 | 6174 | 6179 | 6183 | 6188 | 6192 | 6196 | 6201 | 1 0.5 |
| 13 | 6205 | 6209 | 6214 | 6218 | 6223 | 6227 | 6231 | 6236 | 6240 | 6245 | 2 1.0 |
| 14 | 6249 | 6253 | 6258 | 6262 | 6266 | 6271 | 6275 | 6280 | 6284 | 6288 | 3 1.5 |
| 15 | 99 6293 | 6297 | 6301 | 6306 | 6310 | 6315 | 6319 | 6323 | 6328 | 6332 | 4 2.0 |
| 16 | 6337 | 6341 | 6345 | 6350 | 6354 | 6358 | 6363 | 6367 | 6372 | 6376 | 5 2.5 |
| 17 | 6380 | 6385 | 6389 | 6393 | 6398 | 6402 | 6407 | 6411 | 6415 | 6420 | 6 3.0 |
| 18 | 6424 | 6428 | 6433 | 6437 | 6442 | 6446 | 6450 | 6455 | 6459 | 6464 | 7 3.5 |
| 19 | 6468 | 6472 | 6477 | 6481 | 6485 | 6490 | 6494 | 6499 | 6503 | 6507 | 8 4.0 |
| 9920 | 99 6512 | 6516 | 6520 | 6525 | 6529 | 6534 | 6538 | 6542 | 6547 | 6551 | 9 4.5 |
| 21 | 6555 | 6560 | 6564 | 6569 | 6573 | 6577 | 6582 | 6586 | 6590 | 6595 | |
| 22 | 6599 | 6604 | 6608 | 6612 | 6617 | 6621 | 6625 | 6630 | 6634 | 6639 | |
| 23 | 6643 | 6647 | 6652 | 6656 | 6660 | 6665 | 6669 | 6674 | 6678 | 6682 | |
| 24 | 6687 | 6691 | 6696 | 6700 | 6704 | 6709 | 6713 | 6717 | 6722 | 6726 | |
| 25 | 99 6731 | 6735 | 6739 | 6744 | 6748 | 6752 | 6757 | 6761 | 6766 | 6770 | |
| 26 | 6774 | 6779 | 6783 | 6787 | 6792 | 6796 | 6801 | 6805 | 6809 | 6814 | |
| 27 | 6818 | 6822 | 6827 | 6831 | 6836 | 6840 | 6844 | 6849 | 6853 | 6857 | |
| 28 | 6862 | 6866 | 6871 | 6875 | 6879 | 6884 | 6888 | 6892 | 6897 | 6901 | |
| 29 | 6906 | 6910 | 6914 | 6919 | 6923 | 6927 | 6932 | 6936 | 6941 | 6945 | |
| 9930 | 99 6949 | 6954 | 6958 | 6962 | 6967 | 6971 | 6975 | 6980 | 6984 | 6989 | |
| 31 | 6993 | 6997 | 7002 | 7006 | 7010 | 7015 | 7019 | 7024 | 7028 | 7032 | 4 |
| 32 | 7037 | 7041 | 7045 | 7050 | 7054 | 7059 | 7063 | 7067 | 7072 | 7076 | 1 0.4 |
| 33 | 7080 | 7085 | 7089 | 7094 | 7098 | 7102 | 7107 | 7111 | 7115 | 7120 | 2 0.8 |
| 34 | 7124 | 7129 | 7133 | 7137 | 7142 | 7146 | 7150 | 7155 | 7159 | 7164 | 3 1.2 |
| 35 | 99 7168 | 7172 | 7177 | 7181 | 7185 | 7190 | 7194 | 7198 | 7203 | 7207 | 4 1.6 |
| 36 | 7212 | 7216 | 7220 | 7225 | 7229 | 7233 | 7238 | 7242 | 7247 | 7251 | 5 2.0 |
| 37 | 7255 | 7260 | 7264 | 7268 | 7273 | 7277 | 7282 | 7286 | 7290 | 7295 | 6 2.4 |
| 38 | 7299 | 7303 | 7308 | 7312 | 7316 | 7321 | 7325 | 7330 | 7334 | 7338 | 7 2.8 |
| 39 | 7343 | 7347 | 7351 | 7356 | 7360 | 7365 | 7369 | 7373 | 7378 | 7382 | 8 3.2 |
| 9940 | 99 7386 | 7391 | 7395 | 7399 | 7404 | 7408 | 7413 | 7417 | 7421 | 7426 | 9 3.6 |
| 41 | 7430 | 7434 | 7439 | 7443 | 7448 | 7452 | 7456 | 7461 | 7465 | 7469 | |
| 42 | 7474 | 7478 | 7482 | 7487 | 7491 | 7496 | 7500 | 7504 | 7509 | 7513 | |
| 43 | 7517 | 7522 | 7526 | 7531 | 7535 | 7539 | 7544 | 7548 | 7552 | 7557 | |
| 44 | 7561 | 7565 | 7570 | 7574 | 7579 | 7583 | 7587 | 7592 | 7596 | 7600 | |
| 45 | 99 7605 | 7609 | 7614 | 7618 | 7622 | 7627 | 7631 | 7635 | 7640 | 7644 | |
| 46 | 7648 | 7653 | 7657 | 7662 | 7666 | 7670 | 7675 | 7679 | 7683 | 7688 | |
| 47 | 7692 | 7696 | 7701 | 7705 | 7710 | 7714 | 7718 | 7723 | 7727 | 7731 | |
| 48 | 7736 | 7740 | 7745 | 7749 | 7753 | 7758 | 7762 | 7766 | 7771 | 7775 | |
| 49 | 7779 | 7784 | 7788 | 7793 | 7797 | 7801 | 7806 | 7810 | 7814 | 7819 | |
| 9950 | 99 7823 | 7827 | 7832 | 7836 | 7841 | 7845 | 7849 | 7854 | 7858 | 7862 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 99000" | = 2° 30' 0" | | | 99000" = 2° 45' 0" | | | S. 4,685 408 T. 909 | | | | |
| 99100 | = 27 31 40 | | | 99100 = 2 45 10 | | | 408 909 | | | | |
| 99200 | = 27 33 20 | | | 99200 = 2 45 20 | | | 407 910 | | | | |
| 99300 | = 27 35 0 | | | 99300 = 2 45 30 | | | 407 911 | | | | |
| 99400 | = 27 36 40 | | | 99400 = 2 45 40 | | | 407 911 | | | | |

| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------|-------------|------|------|------|---------------------|------|------|------|----------|------|--------|
| 9950 | 99 7823 | 7827 | 7832 | 7836 | 7841 | 7845 | 7849 | 7854 | 7858 | 7862 | |
| 51 | 7867 | 7871 | 7875 | 7880 | 7884 | 7889 | 7893 | 7897 | 7902 | 7906 | |
| 52 | 7910 | 7915 | 7919 | 7923 | 7928 | 7932 | 7937 | 7941 | 7945 | 7950 | |
| 53 | 7954 | 7958 | 7963 | 7967 | 7971 | 7976 | 7980 | 7985 | 7989 | 7993 | |
| 54 | 7998 | 8002 | 8006 | 8011 | 8015 | 8019 | 8024 | 8028 | 8033 | 8037 | |
| 55 | 99 8041 | 8046 | 8050 | 8054 | 8059 | 8063 | 8067 | 8072 | 8076 | 8081 | |
| 56 | 8085 | 8089 | 8094 | 8098 | 8102 | 8107 | 8111 | 8115 | 8120 | 8124 | |
| 57 | 8129 | 8133 | 8137 | 8142 | 8146 | 8150 | 8155 | 8159 | 8163 | 8168 | |
| 58 | 8172 | 8176 | 8181 | 8185 | 8190 | 8194 | 8198 | 8203 | 8207 | 8211 | |
| 59 | 8216 | 8220 | 8224 | 8229 | 8233 | 8238 | 8242 | 8246 | 8251 | 8255 | |
| 9960 | 99 8259 | 8264 | 8268 | 8272 | 8277 | 8281 | 8285 | 8290 | 8294 | 8299 | |
| 61 | 8303 | 8307 | 8312 | 8316 | 8320 | 8325 | 8329 | 8333 | 8338 | 8342 | |
| 62 | 8347 | 8351 | 8355 | 8360 | 8364 | 8368 | 8373 | 8377 | 8381 | 8386 | |
| 63 | 8390 | 8394 | 8399 | 8403 | 8408 | 8412 | 8416 | 8421 | 8425 | 8429 | |
| 64 | 8434 | 8438 | 8442 | 8447 | 8451 | 8456 | 8460 | 8464 | 8469 | 8473 | |
| 65 | 99 8477 | 8482 | 8486 | 8490 | 8495 | 8499 | 8503 | 8508 | 8512 | 8517 | |
| 66 | 8521 | 8525 | 8530 | 8534 | 8538 | 8543 | 8547 | 8551 | 8556 | 8560 | |
| 67 | 8564 | 8569 | 8573 | 8578 | 8582 | 8586 | 8591 | 8595 | 8599 | 8604 | |
| 68 | 8608 | 8612 | 8617 | 8621 | 8625 | 8630 | 8634 | 8639 | 8643 | 8647 | |
| 69 | 8652 | 8656 | 8660 | 8665 | 8669 | 8673 | 8678 | 8682 | 8686 | 8691 | |
| 9970 | 99 8695 | 8700 | 8704 | 8708 | 8713 | 8717 | 8721 | 8726 | 8730 | 8734 | |
| 71 | 8739 | 8743 | 8747 | 8752 | 8756 | 8760 | 8765 | 8769 | 8774 | 8778 | |
| 72 | 8782 | 8787 | 8791 | 8795 | 8800 | 8804 | 8808 | 8813 | 8817 | 8821 | |
| 73 | 8826 | 8830 | 8835 | 8839 | 8843 | 8848 | 8852 | 8856 | 8861 | 8865 | |
| 74 | 8869 | 8874 | 8878 | 8882 | 8887 | 8891 | 8895 | 8900 | 8904 | 8909 | |
| 75 | 99 8913 | 8917 | 8922 | 8926 | 8930 | 8935 | 8939 | 8943 | 8948 | 8952 | |
| 76 | 8956 | 8961 | 8965 | 8970 | 8974 | 8978 | 8983 | 8987 | 8991 | 8996 | |
| 77 | 9000 | 9004 | 9009 | 9013 | 9017 | 9022 | 9026 | 9030 | 9035 | 9039 | |
| 78 | 9043 | 9048 | 9052 | 9057 | 9061 | 9065 | 9070 | 9074 | 9078 | 9083 | |
| 79 | 9087 | 9091 | 9096 | 9100 | 9104 | 9109 | 9113 | 9117 | 9122 | 9126 | |
| 9980 | 99 9131 | 9135 | 9139 | 9144 | 9148 | 9152 | 9157 | 9161 | 9165 | 9170 | |
| 81 | 9174 | 9178 | 9183 | 9187 | 9191 | 9196 | 9200 | 9205 | 9209 | 9213 | |
| 82 | 9218 | 9222 | 9226 | 9231 | 9235 | 9239 | 9244 | 9248 | 9252 | 9257 | |
| 83 | 9261 | 9265 | 9270 | 9274 | 9278 | 9283 | 9287 | 9292 | 9296 | 9300 | |
| 84 | 9305 | 9309 | 9313 | 9318 | 9322 | 9326 | 9331 | 9335 | 9339 | 9344 | |
| 85 | 99 9348 | 9352 | 9357 | 9361 | 9365 | 9370 | 9374 | 9379 | 9383 | 9387 | |
| 86 | 9392 | 9396 | 9400 | 9405 | 9409 | 9413 | 9418 | 9422 | 9426 | 9431 | |
| 87 | 9435 | 9439 | 9444 | 9448 | 9452 | 9457 | 9461 | 9465 | 9470 | 9474 | |
| 88 | 9479 | 9483 | 9487 | 9492 | 9496 | 9500 | 9505 | 9509 | 9513 | 9518 | |
| 89 | 9522 | 9526 | 9531 | 9535 | 9539 | 9544 | 9548 | 9552 | 9557 | 9561 | |
| 9990 | 99 9565 | 9570 | 9574 | 9579 | 9583 | 9587 | 9592 | 9596 | 9600 | 9605 | |
| 91 | 9609 | 9613 | 9618 | 9622 | 9626 | 9631 | 9635 | 9639 | 9644 | 9648 | |
| 92 | 9652 | 9657 | 9661 | 9665 | 9670 | 9674 | 9679 | 9683 | 9687 | 9692 | |
| 93 | 9696 | 9700 | 9705 | 9709 | 9713 | 9718 | 9722 | 9726 | 9731 | 9735 | |
| 94 | 9739 | 9744 | 9748 | 9752 | 9757 | 9761 | 9765 | 9770 | 9774 | 9778 | |
| 95 | 99 9783 | 9787 | 9791 | 9796 | 9800 | 9805 | 9809 | 9813 | 9818 | 9822 | |
| 96 | 9826 | 9831 | 9835 | 9839 | 9844 | 9848 | 9852 | 9857 | 9861 | 9865 | |
| 97 | 9870 | 9874 | 9878 | 9883 | 9887 | 9891 | 9896 | 9900 | 9904 | 9909 | |
| 98 | 9913 | 9917 | 9922 | 9926 | 9931 | 9935 | 9939 | 9944 | 9948 | 9952 | |
| 99 | 9957 | 9961 | 9965 | 9970 | 9974 | 9978 | 9983 | 9987 | 9991 | 9996 | |
| 10000 | 00 0000 | 0004 | 0009 | 0013 | 0017 | 0022 | 0026 | 0030 | 0035 | 0039 | |
| N. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| 99500' | 27° 38' 20" | | | | 99500' = 2° 45' 50" | | | | S. 4,685 | 406 | T. 912 |
| 99600 | 27 40 0 | | | | 99600 = 2 46 0 | | | | | 406 | 913 |
| 99700 | 27 41 40 | | | | 99700 = 2 46 10 | | | | | 406 | 913 |
| 99800 | 27 43 20 | | | | 99800 = 2 46 20 | | | | | 405 | 914 |
| 99900 | 27 45 0 | | | | 99900 = 2 46 30 | | | | | 405 | 915 |

| Multiples of the number 0.434294. | | | | Multiples of the number 2.302585. | | | |
|-----------------------------------|-----------|-----|-----------|-----------------------------------|------------|-----|------------|
| 0 | 0.000000 | 50 | 21.714724 | 0 | 0.000000 | 50 | 115.129255 |
| 1 | 0.434294 | 51 | 22.149019 | 1 | 2.302585 | 51 | 117.431840 |
| 2 | 0.868589 | 52 | 22.583313 | 2 | 4.605170 | 52 | 119.734425 |
| 3 | 1.302883 | 53 | 23.017608 | 3 | 6.907755 | 53 | 122.037010 |
| 4 | 1.737178 | 54 | 23.451902 | 4 | 9.210340 | 54 | 124.339595 |
| 5 | 2.171472 | 55 | 23.886197 | 5 | 11.512925 | 55 | 126.642180 |
| 6 | 2.605767 | 56 | 24.320491 | 6 | 13.815511 | 56 | 128.944765 |
| 7 | 3.040061 | 57 | 24.754785 | 7 | 16.118096 | 57 | 131.247350 |
| 8 | 3.474356 | 58 | 25.189080 | 8 | 18.420681 | 58 | 133.549935 |
| 9 | 3.908650 | 59 | 25.623374 | 9 | 20.723266 | 59 | 135.852520 |
| 10 | 4.342945 | 60 | 26.057668 | 10 | 23.025851 | 60 | 138.155106 |
| 11 | 4.777239 | 61 | 26.491963 | 11 | 25.328436 | 61 | 140.457691 |
| 12 | 5.211534 | 62 | 26.926258 | 12 | 27.631021 | 62 | 142.760276 |
| 13 | 5.645828 | 63 | 27.360552 | 13 | 29.933606 | 63 | 145.062861 |
| 14 | 6.080123 | 64 | 27.794847 | 14 | 32.236191 | 64 | 147.365446 |
| 15 | 6.514417 | 65 | 28.229141 | 15 | 34.538776 | 65 | 149.668031 |
| 16 | 6.948712 | 66 | 28.663436 | 16 | 36.841361 | 66 | 151.970616 |
| 17 | 7.383006 | 67 | 29.097730 | 17 | 39.143947 | 67 | 154.273201 |
| 18 | 7.817301 | 68 | 29.532025 | 18 | 41.446532 | 68 | 156.575786 |
| 19 | 8.251595 | 69 | 29.966319 | 19 | 43.749117 | 69 | 158.878371 |
| 20 | 8.685890 | 70 | 30.400614 | 20 | 46.051702 | 70 | 161.180957 |
| 21 | 9.120184 | 71 | 30.834908 | 21 | 48.354287 | 71 | 163.483542 |
| 22 | 9.554479 | 72 | 31.269203 | 22 | 50.656872 | 72 | 165.786127 |
| 23 | 9.988773 | 73 | 31.703497 | 23 | 52.959457 | 73 | 168.088712 |
| 24 | 10.423068 | 74 | 32.137792 | 24 | 55.262042 | 74 | 170.391297 |
| 25 | 10.857362 | 75 | 32.572086 | 25 | 57.564627 | 75 | 172.693882 |
| 26 | 11.291657 | 76 | 33.006381 | 26 | 59.867212 | 76 | 174.996467 |
| 27 | 11.725951 | 77 | 33.440675 | 27 | 62.169798 | 77 | 177.299052 |
| 28 | 12.160245 | 78 | 33.874970 | 28 | 64.472383 | 78 | 179.601637 |
| 29 | 12.594540 | 79 | 34.309264 | 29 | 66.774968 | 79 | 181.904222 |
| 30 | 13.028834 | 80 | 34.743559 | 30 | 69.077553 | 80 | 184.206807 |
| 31 | 13.463129 | 81 | 35.177853 | 31 | 71.380138 | 81 | 186.509393 |
| 32 | 13.897423 | 82 | 35.612148 | 32 | 73.682723 | 82 | 188.811978 |
| 33 | 14.331718 | 83 | 36.046442 | 33 | 75.985308 | 83 | 191.114563 |
| 34 | 14.766012 | 84 | 36.480736 | 34 | 78.287893 | 84 | 193.417148 |
| 35 | 15.200307 | 85 | 36.915031 | 35 | 80.590478 | 85 | 195.719733 |
| 36 | 15.634601 | 86 | 37.349325 | 36 | 82.893063 | 86 | 198.022318 |
| 37 | 16.068896 | 87 | 37.783620 | 37 | 85.195648 | 87 | 200.324903 |
| 38 | 16.503190 | 88 | 38.217914 | 38 | 87.498233 | 88 | 202.627488 |
| 39 | 16.937485 | 89 | 38.652209 | 39 | 89.800819 | 89 | 204.930073 |
| 40 | 17.371779 | 90 | 39.086503 | 40 | 92.103404 | 90 | 207.232658 |
| 41 | 17.806074 | 91 | 39.520798 | 41 | 94.405989 | 91 | 209.535243 |
| 42 | 18.240368 | 92 | 39.955092 | 42 | 96.708574 | 92 | 211.837829 |
| 43 | 18.674663 | 93 | 40.389387 | 43 | 99.011159 | 93 | 214.140414 |
| 44 | 19.108957 | 94 | 40.823681 | 44 | 101.313744 | 94 | 216.442999 |
| 45 | 19.543252 | 95 | 41.257976 | 45 | 103.616329 | 95 | 218.745584 |
| 46 | 19.977546 | 96 | 41.692270 | 46 | 105.918914 | 96 | 221.048169 |
| 47 | 20.411841 | 97 | 42.126565 | 47 | 108.221499 | 97 | 223.350754 |
| 48 | 20.846135 | 98 | 42.560859 | 48 | 110.524084 | 98 | 225.653339 |
| 49 | 21.280430 | 99 | 42.995154 | 49 | 112.826670 | 99 | 227.955924 |
| 50 | 21.714724 | 100 | 43.429448 | 50 | 115.129255 | 100 | 230.258509 |

Base of the system of common logarithms = 10.000000

Base of the Napierian system = 2.718282

Napierian logarithm of 10 = 2.302585

Common logarithm of 2.718282 = 0.434294

Napierian logarithm of A = 2.302585 × common logarithm of A

Common logarithm of A = 0.434294 × Napierian logarithm of A
where A denotes any number.

TABLE II.

THE

LOGARITHMS

OF

SINES AND TANGENTS

FOR EVERY SECOND BETWEEN 0° AND 5° .

| " | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | " |
|----|----------|----------|----------|----------|----------|----------|----------|----------|----|
| 0 | — | 6.463726 | 6.764756 | 6.940847 | 7.065786 | 7.162696 | 7.241877 | 7.308824 | 60 |
| 1 | 4.685575 | 6.470905 | 6.768360 | 6.943253 | 7.067592 | 7.164141 | 7.243082 | 7.309857 | 59 |
| 2 | 4.986605 | 6.477967 | 6.771935 | 6.945646 | 7.069390 | 7.165822 | 7.244283 | 7.310887 | 58 |
| 3 | 5.162696 | 6.484915 | 6.775480 | 6.948026 | 7.071181 | 7.167017 | 7.245481 | 7.311915 | 57 |
| 4 | 5.287635 | 6.491755 | 6.778997 | 6.950393 | 7.072965 | 7.168448 | 7.246676 | 7.312940 | 56 |
| 5 | 5.384545 | 6.498488 | 6.782485 | 6.952747 | 7.074741 | 7.169875 | 7.247868 | 7.313963 | 55 |
| 6 | 5.463726 | 6.505119 | 6.785945 | 6.955088 | 7.076510 | 7.171296 | 7.249056 | 7.314984 | 54 |
| 7 | 5.530673 | 6.511650 | 6.789379 | 6.957416 | 7.078272 | 7.172713 | 7.250241 | 7.316002 | 53 |
| 8 | 5.588445 | 6.518082 | 6.792792 | 6.959732 | 7.080026 | 7.174125 | 7.251422 | 7.317018 | 52 |
| 9 | 5.635551 | 6.524412 | 6.796185 | 6.962037 | 7.081774 | 7.175533 | 7.252601 | 7.318032 | 51 |
| 10 | 5.675551 | 6.530742 | 6.800511 | 6.964322 | 7.083515 | 7.176936 | 7.253776 | 7.319043 | 50 |
| 11 | 5.711551 | 6.537072 | 6.804841 | 6.966587 | 7.085247 | 7.178335 | 7.254949 | 7.320052 | 49 |
| 12 | 5.744756 | 6.543297 | 6.809149 | 6.968876 | 7.086975 | 7.179729 | 7.256118 | 7.321058 | 48 |
| 13 | 5.779918 | 6.549489 | 6.809426 | 6.971132 | 7.088695 | 7.181119 | 7.257283 | 7.322062 | 47 |
| 14 | 5.811703 | 6.554807 | 6.812680 | 6.973377 | 7.090408 | 7.182504 | 7.258446 | 7.323064 | 46 |
| 15 | 5.840666 | 6.560636 | 6.815909 | 6.975609 | 7.092115 | 7.183885 | 7.259606 | 7.324064 | 45 |
| 16 | 5.869695 | 6.566388 | 6.819114 | 6.977831 | 7.093815 | 7.185262 | 7.260762 | 7.325061 | 44 |
| 17 | 5.916024 | 6.572066 | 6.822295 | 6.980041 | 7.095508 | 7.186634 | 7.261916 | 7.326056 | 43 |
| 18 | 5.940847 | 6.577669 | 6.825454 | 6.982240 | 7.097194 | 7.188002 | 7.263066 | 7.327049 | 42 |
| 19 | 5.964328 | 6.583202 | 6.828590 | 6.984428 | 7.098875 | 7.189365 | 7.264214 | 7.328039 | 41 |
| 20 | 5.986665 | 6.588665 | 6.831555 | 6.986605 | 7.100538 | 7.190725 | 7.265358 | 7.329022 | 40 |
| 21 | 6.007794 | 6.594060 | 6.834512 | 6.988771 | 7.102215 | 7.192085 | 7.266500 | 7.330013 | 39 |
| 22 | 6.027998 | 6.599389 | 6.837863 | 6.990926 | 7.103876 | 7.193431 | 7.267638 | 7.330997 | 38 |
| 23 | 6.047303 | 6.604653 | 6.840911 | 6.993071 | 7.105530 | 7.194777 | 7.268773 | 7.331978 | 37 |
| 24 | 6.065786 | 6.609854 | 6.843937 | 6.995205 | 7.107179 | 7.196120 | 7.269906 | 7.332958 | 36 |
| 25 | 6.083515 | 6.614994 | 6.846943 | 6.997329 | 7.108821 | 7.197458 | 7.271035 | 7.333935 | 35 |
| 26 | 6.100548 | 6.620073 | 6.849928 | 6.999442 | 7.110456 | 7.198792 | 7.272162 | 7.334909 | 34 |
| 27 | 6.116939 | 6.625094 | 6.852892 | 7.001545 | 7.112086 | 7.200122 | 7.273286 | 7.335882 | 33 |
| 28 | 6.132733 | 6.630058 | 6.855837 | 7.003628 | 7.113711 | 7.201449 | 7.274407 | 7.336852 | 32 |
| 29 | 6.147935 | 6.634965 | 6.858751 | 7.005692 | 7.115322 | 7.202764 | 7.275524 | 7.337821 | 31 |
| 30 | 6.162536 | 6.639817 | 6.861641 | 7.007741 | 7.116921 | 7.204072 | 7.276638 | 7.338781 | 30 |
| 31 | 6.176937 | 6.644616 | 6.864512 | 7.009775 | 7.118511 | 7.205373 | 7.277751 | 7.339751 | 29 |
| 32 | 6.190975 | 6.649363 | 6.867418 | 7.011911 | 7.120144 | 7.206713 | 7.278861 | 7.340713 | 28 |
| 33 | 6.204089 | 6.654058 | 6.870266 | 7.013954 | 7.121737 | 7.208019 | 7.279967 | 7.341673 | 27 |
| 34 | 6.217054 | 6.658703 | 6.873096 | 7.015989 | 7.123325 | 7.209321 | 7.281071 | 7.342630 | 26 |
| 35 | 6.229643 | 6.663298 | 6.875907 | 7.018013 | 7.124907 | 7.210619 | 7.282170 | 7.343586 | 25 |
| 36 | 6.241877 | 6.667846 | 6.878699 | 7.020029 | 7.126484 | 7.211914 | 7.283270 | 7.344539 | 24 |
| 37 | 6.253777 | 6.672347 | 6.881474 | 7.022035 | 7.128055 | 7.213205 | 7.284365 | 7.345491 | 23 |
| 38 | 6.265358 | 6.676801 | 6.884232 | 7.024031 | 7.129620 | 7.214491 | 7.285454 | 7.346440 | 22 |
| 39 | 6.276639 | 6.681210 | 6.886972 | 7.026019 | 7.131179 | 7.215774 | 7.286547 | 7.347387 | 21 |
| 40 | 6.287635 | 6.685575 | 6.889695 | 7.027997 | 7.132733 | 7.217054 | 7.287635 | 7.348332 | 20 |
| 41 | 6.298359 | 6.689896 | 6.892401 | 7.029967 | 7.134281 | 7.218329 | 7.288719 | 7.349275 | 19 |
| 42 | 6.308824 | 6.694175 | 6.895090 | 7.031928 | 7.135824 | 7.219601 | 7.289801 | 7.350216 | 18 |
| 43 | 6.319043 | 6.698412 | 6.897762 | 7.033880 | 7.137361 | 7.220869 | 7.290880 | 7.351155 | 17 |
| 44 | 6.329028 | 6.702608 | 6.900419 | 7.035823 | 7.138893 | 7.222133 | 7.291956 | 7.352092 | 16 |
| 45 | 6.338787 | 6.706764 | 6.903059 | 7.037757 | 7.140420 | 7.223394 | 7.293030 | 7.353027 | 15 |
| 46 | 6.348333 | 6.710881 | 6.905683 | 7.039683 | 7.141941 | 7.224651 | 7.294101 | 7.353960 | 14 |
| 47 | 6.357673 | 6.714959 | 6.908291 | 7.041601 | 7.143457 | 7.225904 | 7.295169 | 7.354891 | 13 |
| 48 | 6.366816 | 6.718999 | 6.910884 | 7.043510 | 7.144967 | 7.227154 | 7.296235 | 7.355820 | 12 |
| 49 | 6.375771 | 6.723001 | 6.913462 | 7.045410 | 7.146473 | 7.228407 | 7.297298 | 7.356747 | 11 |
| 50 | 6.384545 | 6.726968 | 6.916024 | 7.047303 | 7.147973 | 7.229643 | 7.298358 | 7.357672 | 10 |
| 51 | 6.393145 | 6.730898 | 6.918571 | 7.049187 | 7.149468 | 7.230882 | 7.299416 | 7.358595 | 9 |
| 52 | 6.401578 | 6.734793 | 6.921103 | 7.051063 | 7.150958 | 7.232117 | 7.300472 | 7.359516 | 8 |
| 53 | 6.409851 | 6.738653 | 6.923621 | 7.052931 | 7.152442 | 7.233349 | 7.301525 | 7.360436 | 7 |
| 54 | 6.417969 | 6.742480 | 6.926124 | 7.054791 | 7.153922 | 7.234578 | 7.302575 | 7.361353 | 6 |
| 55 | 6.425938 | 6.746273 | 6.928613 | 7.056643 | 7.155397 | 7.235803 | 7.303623 | 7.362268 | 5 |
| 56 | 6.433793 | 6.750033 | 6.931087 | 7.058487 | 7.156866 | 7.237025 | 7.304668 | 7.363181 | 4 |
| 57 | 6.441450 | 6.753761 | 6.933548 | 7.060323 | 7.158331 | 7.238243 | 7.305711 | 7.364093 | 3 |
| 58 | 6.449003 | 6.757457 | 6.935995 | 7.062152 | 7.159791 | 7.239458 | 7.306751 | 7.365002 | 2 |
| 59 | 6.456427 | 6.761122 | 6.938428 | 7.063973 | 7.161246 | 7.240669 | 7.307789 | 7.365910 | 1 |
| 60 | 6.463726 | 6.764756 | 6.940847 | 7.065786 | 7.162696 | 7.241877 | 7.308824 | 7.366816 | 0 |
| " | 59' | 58' | 57' | 56' | 55' | 54' | 53' | 52' | " |

| " | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | " |
|----|----------|----------|----------|----------|----------|--------|--------|--------|----|
| 0 | — | 6.463726 | 6.764756 | 6.940847 | 7.065786 | 162696 | 241878 | 308825 | 60 |
| 1 | 4.685575 | 6.470905 | 6.768360 | 6.943254 | 7.067592 | 164142 | 243083 | 309858 | 59 |
| 2 | 4.986605 | 6.477967 | 6.771935 | 6.945646 | 7.069390 | 165582 | 244284 | 310888 | 58 |
| 3 | 5.162696 | 6.484915 | 6.775480 | 6.948026 | 7.071181 | 167018 | 245482 | 311916 | 57 |
| 4 | 5.287635 | 6.491575 | 6.778997 | 6.950393 | 7.072965 | 168449 | 246677 | 312941 | 56 |
| 5 | 5.384545 | 6.498488 | 6.782485 | 6.952747 | 7.074741 | 169875 | 247868 | 313964 | 55 |
| 6 | 5.463726 | 6.505119 | 6.785945 | 6.955088 | 7.076510 | 171297 | 249056 | 314985 | 54 |
| 7 | 5.530673 | 6.511650 | 6.789379 | 6.957417 | 7.078272 | 172714 | 250241 | 316003 | 53 |
| 8 | 5.588665 | 6.518084 | 6.792785 | 6.959733 | 7.080027 | 174126 | 251423 | 317019 | 52 |
| 9 | 5.639817 | 6.524424 | 6.796165 | 6.962037 | 7.081774 | 175534 | 252602 | 318033 | 51 |
| 10 | 5.685575 | 6.530673 | 6.799518 | 6.964329 | 7.083515 | 176937 | 253777 | 319044 | 50 |
| 11 | 5.726968 | 6.536833 | 6.802846 | 6.966608 | 7.085249 | 178336 | 254949 | 320053 | 49 |
| 12 | 5.764756 | 6.542907 | 6.806149 | 6.968876 | 7.086976 | 179730 | 256118 | 321059 | 48 |
| 13 | 5.799518 | 6.548898 | 6.809427 | 6.971132 | 7.088696 | 181120 | 257284 | 322063 | 47 |
| 14 | 5.831703 | 6.554807 | 6.812680 | 6.973377 | 7.090409 | 182505 | 258447 | 323065 | 46 |
| 15 | 5.861666 | 6.560636 | 6.815909 | 6.975610 | 7.092115 | 183886 | 259607 | 324065 | 45 |
| 16 | 5.889695 | 6.566388 | 6.819114 | 6.977831 | 7.093815 | 185262 | 260763 | 325062 | 44 |
| 17 | 5.916024 | 6.572066 | 6.822295 | 6.980041 | 7.095508 | 186634 | 261917 | 326057 | 43 |
| 18 | 5.940847 | 6.577669 | 6.825454 | 6.982240 | 7.097195 | 188002 | 263067 | 327050 | 42 |
| 19 | 5.964328 | 6.583202 | 6.828590 | 6.984428 | 7.098875 | 189366 | 264215 | 328040 | 41 |
| 20 | 5.986605 | 6.588665 | 6.831703 | 6.986605 | 7.100548 | 190725 | 265359 | 329028 | 40 |
| 21 | 6.007794 | 6.594060 | 6.834794 | 6.988771 | 7.102216 | 192080 | 266500 | 330014 | 39 |
| 22 | 6.027968 | 6.599389 | 6.837865 | 6.990926 | 7.103876 | 193431 | 267639 | 330998 | 38 |
| 23 | 6.047303 | 6.604653 | 6.840911 | 6.993071 | 7.105531 | 194778 | 268774 | 331979 | 37 |
| 24 | 6.065786 | 6.609854 | 6.843937 | 6.995205 | 7.107179 | 196120 | 269907 | 332959 | 36 |
| 25 | 6.083515 | 6.614994 | 6.846943 | 6.997329 | 7.108821 | 197459 | 271036 | 333936 | 35 |
| 26 | 6.100548 | 6.620073 | 6.849928 | 6.999442 | 7.110457 | 198793 | 272163 | 334910 | 34 |
| 27 | 6.116939 | 6.625094 | 6.852892 | 7.001545 | 7.112086 | 200123 | 273286 | 335883 | 33 |
| 28 | 6.132733 | 6.630058 | 6.855837 | 7.003638 | 7.113710 | 201449 | 274407 | 336854 | 32 |
| 29 | 6.147973 | 6.634965 | 6.858761 | 7.005721 | 7.115327 | 202771 | 275525 | 337822 | 31 |
| 30 | 6.162696 | 6.639817 | 6.861666 | 7.007794 | 7.116939 | 204089 | 276640 | 338788 | 30 |
| 31 | 6.176937 | 6.644616 | 6.864552 | 7.009857 | 7.118544 | 205403 | 277752 | 339752 | 29 |
| 32 | 6.190725 | 6.649363 | 6.867419 | 7.011911 | 7.120144 | 206713 | 278861 | 340714 | 28 |
| 33 | 6.204089 | 6.654058 | 6.870266 | 7.013955 | 7.121738 | 208019 | 279968 | 341674 | 27 |
| 34 | 6.217054 | 6.658703 | 6.873096 | 7.015989 | 7.123326 | 209322 | 281072 | 342631 | 26 |
| 35 | 6.229643 | 6.663299 | 6.875907 | 7.018013 | 7.124908 | 210620 | 282172 | 343587 | 25 |
| 36 | 6.241877 | 6.667846 | 6.878700 | 7.020029 | 7.126484 | 211915 | 283271 | 344540 | 24 |
| 37 | 6.253777 | 6.672347 | 6.881475 | 7.022035 | 7.128055 | 213205 | 284366 | 345492 | 23 |
| 38 | 6.265358 | 6.676801 | 6.884232 | 7.024032 | 7.129620 | 214492 | 285458 | 346441 | 22 |
| 39 | 6.276639 | 6.681210 | 6.886972 | 7.026019 | 7.131179 | 215775 | 286548 | 347388 | 21 |
| 40 | 6.287635 | 6.685575 | 6.889695 | 7.027998 | 7.132733 | 217054 | 287635 | 348333 | 20 |
| 41 | 6.298359 | 6.689896 | 6.892401 | 7.029967 | 7.134281 | 218330 | 288720 | 349277 | 19 |
| 42 | 6.308824 | 6.694175 | 6.895090 | 7.031928 | 7.135824 | 219601 | 289801 | 350218 | 18 |
| 43 | 6.319043 | 6.698412 | 6.897763 | 7.033880 | 7.137362 | 220869 | 290880 | 351157 | 17 |
| 44 | 6.329028 | 6.702608 | 6.900419 | 7.035823 | 7.138893 | 222134 | 291957 | 352094 | 16 |
| 45 | 6.338787 | 6.706764 | 6.903059 | 7.037758 | 7.140420 | 223394 | 293030 | 353029 | 15 |
| 46 | 6.348333 | 6.710881 | 6.905683 | 7.039683 | 7.141941 | 224651 | 294101 | 353962 | 14 |
| 47 | 6.357673 | 6.714959 | 6.908291 | 7.041601 | 7.143457 | 225905 | 295170 | 354892 | 13 |
| 48 | 6.366816 | 6.718998 | 6.910884 | 7.043510 | 7.144968 | 227155 | 296236 | 355821 | 12 |
| 49 | 6.375771 | 6.723001 | 6.913462 | 7.045411 | 7.146473 | 228401 | 297299 | 356748 | 11 |
| 50 | 6.384545 | 6.726968 | 6.916024 | 7.047303 | 7.147973 | 229643 | 298359 | 357673 | 10 |
| 51 | 6.393145 | 6.730898 | 6.918571 | 7.049187 | 7.149468 | 230882 | 299417 | 358597 | 9 |
| 52 | 6.401578 | 6.734793 | 6.921103 | 7.051063 | 7.150958 | 232118 | 300473 | 359518 | 8 |
| 53 | 6.409851 | 6.738653 | 6.923621 | 7.052931 | 7.152443 | 233350 | 301525 | 360437 | 7 |
| 54 | 6.417969 | 6.742480 | 6.926124 | 7.054791 | 7.153922 | 234579 | 302576 | 361354 | 6 |
| 55 | 6.425938 | 6.746273 | 6.928613 | 7.056643 | 7.155397 | 235804 | 303624 | 362269 | 5 |
| 56 | 6.433763 | 6.750033 | 6.931088 | 7.058487 | 7.156867 | 237025 | 304669 | 363183 | 4 |
| 57 | 6.441450 | 6.753761 | 6.933548 | 7.060323 | 7.158332 | 238244 | 305712 | 364094 | 3 |
| 58 | 6.449003 | 6.757457 | 6.935995 | 7.062152 | 7.159791 | 239458 | 306752 | 365004 | 2 |
| 59 | 6.456427 | 6.761122 | 6.938428 | 7.063973 | 7.161246 | 240670 | 307789 | 365911 | 1 |
| 60 | 6.463726 | 6.764756 | 6.940847 | 7.065786 | 7.162696 | 241878 | 308825 | 366817 | 0 |
| " | 59' | 58' | 57' | 56' | 55' | 54' | 53' | 52' | " |

| " | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 7-366816 | 419668 | 465726 | 511118 | 557276 | 603434 | 649592 | 695750 | 741908 |
| 1 | 7-366822 | 419674 | 465732 | 511124 | 557282 | 603440 | 649598 | 695756 | 741914 |
| 2 | 7-366828 | 419680 | 465738 | 511130 | 557288 | 603446 | 649604 | 695762 | 741920 |
| 3 | 7-366834 | 419686 | 465744 | 511136 | 557294 | 603452 | 649610 | 695768 | 741926 |
| 4 | 7-366840 | 419692 | 465750 | 511142 | 557300 | 603458 | 649616 | 695774 | 741932 |
| 5 | 7-366846 | 419698 | 465756 | 511148 | 557306 | 603464 | 649622 | 695780 | 741938 |
| 6 | 7-366852 | 419704 | 465762 | 511154 | 557312 | 603470 | 649628 | 695786 | 741944 |
| 7 | 7-366858 | 419710 | 465768 | 511160 | 557318 | 603476 | 649634 | 695792 | 741950 |
| 8 | 7-366864 | 419716 | 465774 | 511166 | 557324 | 603482 | 649640 | 695798 | 741956 |
| 9 | 7-366870 | 419722 | 465780 | 511172 | 557330 | 603488 | 649646 | 695804 | 741962 |
| 10 | 7-366876 | 419728 | 465786 | 511178 | 557336 | 603494 | 649652 | 695810 | 741968 |
| 11 | 7-366882 | 419734 | 465792 | 511184 | 557342 | 603500 | 649658 | 695816 | 741974 |
| 12 | 7-366888 | 419740 | 465798 | 511190 | 557348 | 603506 | 649664 | 695822 | 741980 |
| 13 | 7-366894 | 419746 | 465804 | 511196 | 557354 | 603512 | 649670 | 695828 | 741986 |
| 14 | 7-366900 | 419752 | 465810 | 511202 | 557360 | 603518 | 649676 | 695834 | 741992 |
| 15 | 7-366906 | 419758 | 465816 | 511208 | 557366 | 603524 | 649682 | 695840 | 741998 |
| 16 | 7-366912 | 419764 | 465822 | 511214 | 557372 | 603530 | 649688 | 695846 | 742004 |
| 17 | 7-366918 | 419770 | 465828 | 511220 | 557378 | 603536 | 649694 | 695852 | 742010 |
| 18 | 7-366924 | 419776 | 465834 | 511226 | 557384 | 603542 | 649700 | 695858 | 742016 |
| 19 | 7-366930 | 419782 | 465840 | 511232 | 557390 | 603548 | 649706 | 695864 | 742022 |
| 20 | 7-366936 | 419788 | 465846 | 511238 | 557396 | 603554 | 649712 | 695870 | 742028 |
| 21 | 7-366942 | 419794 | 465852 | 511244 | 557402 | 603560 | 649718 | 695876 | 742034 |
| 22 | 7-366948 | 419800 | 465858 | 511250 | 557408 | 603566 | 649724 | 695882 | 742040 |
| 23 | 7-366954 | 419806 | 465864 | 511256 | 557414 | 603572 | 649730 | 695888 | 742046 |
| 24 | 7-366960 | 419812 | 465870 | 511262 | 557420 | 603578 | 649736 | 695894 | 742052 |
| 25 | 7-366966 | 419818 | 465876 | 511268 | 557426 | 603584 | 649742 | 695900 | 742058 |
| 26 | 7-366972 | 419824 | 465882 | 511274 | 557432 | 603590 | 649748 | 695906 | 742064 |
| 27 | 7-366978 | 419830 | 465888 | 511280 | 557438 | 603596 | 649754 | 695912 | 742070 |
| 28 | 7-366984 | 419836 | 465894 | 511286 | 557444 | 603602 | 649760 | 695918 | 742076 |
| 29 | 7-366990 | 419842 | 465900 | 511292 | 557450 | 603608 | 649766 | 695924 | 742082 |
| 30 | 7-366996 | 419848 | 465906 | 511298 | 557456 | 603614 | 649772 | 695930 | 742088 |
| 31 | 7-367002 | 419854 | 465912 | 511304 | 557462 | 603620 | 649778 | 695936 | 742094 |
| 32 | 7-367008 | 419860 | 465918 | 511310 | 557468 | 603626 | 649784 | 695942 | 742100 |
| 33 | 7-367014 | 419866 | 465924 | 511316 | 557474 | 603632 | 649790 | 695948 | 742106 |
| 34 | 7-367020 | 419872 | 465930 | 511322 | 557480 | 603638 | 649796 | 695954 | 742112 |
| 35 | 7-367026 | 419878 | 465936 | 511328 | 557486 | 603644 | 649802 | 695960 | 742118 |
| 36 | 7-367032 | 419884 | 465942 | 511334 | 557492 | 603650 | 649808 | 695966 | 742124 |
| 37 | 7-367038 | 419890 | 465948 | 511340 | 557498 | 603656 | 649814 | 695972 | 742130 |
| 38 | 7-367044 | 419896 | 465954 | 511346 | 557504 | 603662 | 649820 | 695978 | 742136 |
| 39 | 7-367050 | 419902 | 465960 | 511352 | 557510 | 603668 | 649826 | 695984 | 742142 |
| 40 | 7-367056 | 419908 | 465966 | 511358 | 557516 | 603674 | 649832 | 695990 | 742148 |
| 41 | 7-367062 | 419914 | 465972 | 511364 | 557522 | 603680 | 649838 | 696000 | 742154 |
| 42 | 7-367068 | 419920 | 465978 | 511370 | 557528 | 603686 | 649844 | 696006 | 742160 |
| 43 | 7-367074 | 419926 | 465984 | 511376 | 557534 | 603692 | 649850 | 696012 | 742166 |
| 44 | 7-367080 | 419932 | 465990 | 511382 | 557540 | 603698 | 649856 | 696018 | 742172 |
| 45 | 7-367086 | 419938 | 466000 | 511388 | 557546 | 603704 | 649862 | 696024 | 742178 |
| 46 | 7-367092 | 419944 | 466006 | 511394 | 557552 | 603710 | 649868 | 696030 | 742184 |
| 47 | 7-367098 | 419950 | 466012 | 511400 | 557558 | 603716 | 649874 | 696036 | 742190 |
| 48 | 7-367104 | 419956 | 466018 | 511406 | 557564 | 603722 | 649880 | 696042 | 742196 |
| 49 | 7-367110 | 419962 | 466024 | 511412 | 557570 | 603728 | 649886 | 696048 | 742202 |
| 50 | 7-367116 | 419968 | 466030 | 511418 | 557576 | 603734 | 649892 | 696054 | 742208 |
| 51 | 7-367122 | 419974 | 466036 | 511424 | 557582 | 603740 | 649898 | 696060 | 742214 |
| 52 | 7-367128 | 419980 | 466042 | 511430 | 557588 | 603746 | 649904 | 696066 | 742220 |
| 53 | 7-367134 | 419986 | 466048 | 511436 | 557594 | 603752 | 649910 | 696072 | 742226 |
| 54 | 7-367140 | 419992 | 466054 | 511442 | 557600 | 603758 | 649916 | 696078 | 742232 |
| 55 | 7-367146 | 420000 | 466060 | 511448 | 557606 | 603764 | 649922 | 696084 | 742238 |
| 56 | 7-367152 | 420006 | 466066 | 511454 | 557612 | 603770 | 649928 | 696090 | 742244 |
| 57 | 7-367158 | 420012 | 466072 | 511460 | 557618 | 603776 | 649934 | 696096 | 742250 |
| 58 | 7-367164 | 420018 | 466078 | 511466 | 557624 | 603782 | 649940 | 696102 | 742256 |
| 59 | 7-367170 | 420024 | 466084 | 511472 | 557630 | 603788 | 649946 | 696108 | 742262 |
| 60 | 7-367176 | 420030 | 466090 | 511478 | 557636 | 603794 | 649952 | 696114 | 742268 |
| " | 51' | 50' | 49' | 48' | 47' | 46' | 45' | 44' | " |

| " | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 7 366817 | 417970 | 463727 | 505120 | 542909 | 577672 | 609857 | 639820 | 60 |
| 1 | 7 367721 | 418773 | 464451 | 505778 | 543512 | 578228 | 610373 | 640302 | 59 |
| 2 | 7 368623 | 419575 | 465173 | 506434 | 544114 | 578784 | 610889 | 640784 | 58 |
| 3 | 7 369523 | 420376 | 465893 | 507090 | 544715 | 579339 | 611405 | 641265 | 57 |
| 4 | 7 370421 | 421175 | 466613 | 507744 | 545315 | 579893 | 611920 | 641746 | 56 |
| 5 | 7 371317 | 421972 | 467331 | 508398 | 545915 | 580447 | 612434 | 642226 | 55 |
| 6 | 7 372212 | 422769 | 468049 | 509051 | 546513 | 581000 | 612948 | 642706 | 54 |
| 7 | 7 373105 | 423563 | 468765 | 509702 | 547111 | 581552 | 613461 | 643185 | 53 |
| 8 | 7 373995 | 424356 | 469480 | 510353 | 547708 | 582103 | 613973 | 643664 | 52 |
| 9 | 7 374885 | 425148 | 470193 | 511003 | 548304 | 582654 | 614485 | 644142 | 51 |
| 10 | 7 375772 | 425939 | 470906 | 511651 | 548900 | 583204 | 614996 | 644619 | 50 |
| 11 | 7 376657 | 426727 | 471617 | 512299 | 549494 | 583753 | 615507 | 645096 | 49 |
| 12 | 7 377541 | 427515 | 472328 | 512946 | 550088 | 584302 | 616017 | 645573 | 48 |
| 13 | 7 378423 | 428301 | 473037 | 513591 | 550681 | 584850 | 616526 | 646048 | 47 |
| 14 | 7 379303 | 429086 | 473745 | 514236 | 551273 | 585398 | 617035 | 646524 | 46 |
| 15 | 7 380181 | 429869 | 474451 | 514880 | 551864 | 585944 | 617543 | 646999 | 45 |
| 16 | 7 381057 | 430651 | 475157 | 515523 | 552455 | 586490 | 618051 | 647473 | 44 |
| 17 | 7 381932 | 431431 | 475861 | 516165 | 553044 | 587035 | 618558 | 647947 | 43 |
| 18 | 7 382805 | 432210 | 476565 | 516806 | 553633 | 587580 | 619065 | 648420 | 42 |
| 19 | 7 383676 | 432988 | 477267 | 517446 | 554221 | 588124 | 619571 | 648893 | 41 |
| 20 | 7 384546 | 433764 | 477968 | 518085 | 554808 | 588667 | 620076 | 649366 | 40 |
| 21 | 7 385413 | 434539 | 478668 | 518724 | 555395 | 589210 | 620581 | 649837 | 39 |
| 22 | 7 386279 | 435312 | 479367 | 519361 | 555981 | 589751 | 621085 | 650309 | 38 |
| 23 | 7 387144 | 436084 | 480064 | 519997 | 556566 | 590293 | 621588 | 650779 | 37 |
| 24 | 7 388006 | 436855 | 480761 | 520633 | 557150 | 590833 | 622091 | 651250 | 36 |
| 25 | 7 388867 | 437624 | 481456 | 521267 | 557733 | 591373 | 622594 | 651720 | 35 |
| 26 | 7 389726 | 438392 | 482151 | 521901 | 558316 | 591912 | 623095 | 652189 | 34 |
| 27 | 7 390584 | 439159 | 482844 | 522533 | 558897 | 592451 | 623597 | 652658 | 33 |
| 28 | 7 391439 | 439924 | 483536 | 523165 | 559478 | 592988 | 624097 | 653126 | 32 |
| 29 | 7 392294 | 440688 | 484227 | 523796 | 560059 | 593526 | 624597 | 653594 | 31 |
| 30 | 7 393146 | 441451 | 484917 | 524426 | 560638 | 594062 | 625097 | 654061 | 30 |
| 31 | 7 393997 | 442212 | 485606 | 525055 | 561217 | 594598 | 625596 | 654527 | 29 |
| 32 | 7 394846 | 442972 | 486293 | 525683 | 561795 | 595133 | 626094 | 654994 | 28 |
| 33 | 7 395693 | 443731 | 486980 | 526310 | 562372 | 595668 | 626592 | 655459 | 27 |
| 34 | 7 396539 | 444488 | 487665 | 526936 | 562948 | 596202 | 627089 | 655925 | 26 |
| 35 | 7 397383 | 445244 | 488350 | 527561 | 563524 | 596735 | 627586 | 656389 | 25 |
| 36 | 7 398225 | 445998 | 489033 | 528186 | 564099 | 597267 | 628082 | 656854 | 24 |
| 37 | 7 399066 | 446752 | 489716 | 528809 | 564673 | 597799 | 628577 | 657317 | 23 |
| 38 | 7 399906 | 447505 | 490397 | 529432 | 565246 | 598330 | 629072 | 657781 | 22 |
| 39 | 7 400743 | 448255 | 491077 | 530054 | 565819 | 598861 | 629566 | 658243 | 21 |
| 40 | 7 401579 | 449004 | 491756 | 530675 | 566390 | 599391 | 630060 | 658706 | 20 |
| 41 | 7 402414 | 449752 | 492434 | 531295 | 566961 | 599920 | 630553 | 659168 | 19 |
| 42 | 7 403246 | 450499 | 493111 | 531914 | 567532 | 600449 | 631046 | 659629 | 18 |
| 43 | 7 404077 | 451245 | 493787 | 532532 | 568101 | 600977 | 631538 | 660090 | 17 |
| 44 | 7 404907 | 451989 | 494462 | 533149 | 568670 | 601504 | 632030 | 660550 | 16 |
| 45 | 7 405735 | 452732 | 495136 | 533766 | 569238 | 602031 | 632521 | 661010 | 15 |
| 46 | 7 406562 | 453474 | 495809 | 534381 | 569806 | 602557 | 633011 | 661469 | 14 |
| 47 | 7 407386 | 454214 | 496481 | 534996 | 570372 | 603083 | 633501 | 661928 | 13 |
| 48 | 7 408210 | 454953 | 497151 | 535610 | 570938 | 603608 | 633991 | 662386 | 12 |
| 49 | 7 409031 | 455691 | 497821 | 536223 | 571503 | 604132 | 634479 | 662844 | 11 |
| 50 | 7 409852 | 456428 | 498490 | 536835 | 572068 | 604655 | 634968 | 663302 | 10 |
| 51 | 7 410670 | 457164 | 499157 | 537446 | 572631 | 605178 | 635455 | 663758 | 9 |
| 52 | 7 411487 | 457898 | 499824 | 538057 | 573194 | 605701 | 635942 | 664215 | 8 |
| 53 | 7 412303 | 458631 | 500489 | 538666 | 573756 | 606222 | 636429 | 664671 | 7 |
| 54 | 7 413117 | 459363 | 501154 | 539275 | 574318 | 606743 | 636915 | 665126 | 6 |
| 55 | 7 413930 | 460093 | 501818 | 539883 | 574879 | 607264 | 637401 | 665581 | 5 |
| 56 | 7 414741 | 460822 | 502480 | 540490 | 575439 | 607784 | 637886 | 666036 | 4 |
| 57 | 7 415550 | 461550 | 503142 | 541096 | 575998 | 608303 | 638370 | 666490 | 3 |
| 58 | 7 416358 | 462277 | 503802 | 541701 | 576557 | 608821 | 638854 | 666943 | 2 |
| 59 | 7 417165 | 463003 | 504462 | 542306 | 577114 | 609339 | 639337 | 667397 | 1 |
| 60 | 7 417970 | 463727 | 505120 | 542909 | 577672 | 609857 | 639820 | 667849 | 0 |
| " | 51' | 50' | 49' | 48' | 47' | 46' | 45' | 44' | " |

| " | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 7.667845 | 694173 | 718997 | 742478 | 764754 | 785943 | 806146 | 825451 | 60 |
| 1 | 7.668297 | 694599 | 719399 | 742858 | 765115 | 786287 | 806475 | 825765 | 59 |
| 2 | 7.668748 | 695024 | 719800 | 743239 | 765477 | 786632 | 806803 | 826080 | 58 |
| 3 | 7.669200 | 695449 | 720201 | 743619 | 765838 | 786976 | 807132 | 826394 | 57 |
| 4 | 7.669650 | 695873 | 720602 | 743999 | 766199 | 787319 | 807460 | 826708 | 56 |
| 5 | 7.670101 | 696297 | 721003 | 744378 | 766559 | 787663 | 807788 | 827021 | 55 |
| 6 | 7.670550 | 696720 | 721403 | 744757 | 766920 | 788006 | 808115 | 827335 | 54 |
| 7 | 7.671000 | 697144 | 721802 | 745136 | 767280 | 788349 | 808443 | 827648 | 53 |
| 8 | 7.671449 | 697566 | 722202 | 745515 | 767639 | 788691 | 808770 | 827961 | 52 |
| 9 | 7.671897 | 697988 | 722601 | 745893 | 767999 | 789034 | 809097 | 828274 | 51 |
| 10 | 7.672345 | 698409 | 723000 | 746272 | 768358 | 789376 | 809423 | 828586 | 50 |
| 11 | 7.672792 | 698829 | 723399 | 746651 | 768717 | 789718 | 809750 | 828899 | 49 |
| 12 | 7.673240 | 699253 | 723795 | 747025 | 769075 | 790059 | 810076 | 829211 | 48 |
| 13 | 7.673686 | 699673 | 724193 | 747402 | 769433 | 790401 | 810402 | 829523 | 47 |
| 14 | 7.674132 | 700094 | 724590 | 747778 | 769791 | 790742 | 810728 | 829834 | 46 |
| 15 | 7.674578 | 700513 | 724987 | 748155 | 770149 | 791082 | 811053 | 830146 | 45 |
| 16 | 7.675023 | 700933 | 725383 | 748530 | 770506 | 791423 | 811378 | 830457 | 44 |
| 17 | 7.675468 | 701352 | 725779 | 748906 | 770863 | 791763 | 811703 | 830768 | 43 |
| 18 | 7.675912 | 701770 | 726175 | 749281 | 771220 | 792103 | 812028 | 831079 | 42 |
| 19 | 7.676356 | 702189 | 726571 | 749656 | 771576 | 792443 | 812352 | 831389 | 41 |
| 20 | 7.676799 | 702606 | 726965 | 750031 | 771932 | 792782 | 812676 | 831699 | 40 |
| 21 | 7.677242 | 703024 | 727359 | 750405 | 772288 | 793121 | 813000 | 832009 | 39 |
| 22 | 7.677685 | 703441 | 727754 | 750779 | 772644 | 793460 | 813324 | 832320 | 38 |
| 23 | 7.678127 | 703857 | 728148 | 751152 | 772999 | 793799 | 813648 | 832629 | 37 |
| 24 | 7.678568 | 704274 | 728542 | 751526 | 773354 | 794137 | 813971 | 832939 | 36 |
| 25 | 7.679009 | 704689 | 728935 | 751898 | 773708 | 794475 | 814294 | 833248 | 35 |
| 26 | 7.679450 | 705105 | 729328 | 752271 | 774063 | 794813 | 814617 | 833557 | 34 |
| 27 | 7.679890 | 705520 | 729720 | 752643 | 774417 | 795151 | 814939 | 833866 | 33 |
| 28 | 7.680330 | 705934 | 730113 | 753015 | 774771 | 795488 | 815262 | 834174 | 32 |
| 29 | 7.680769 | 706348 | 730505 | 753387 | 775124 | 795825 | 815582 | 834482 | 31 |
| 30 | 7.681208 | 706762 | 730896 | 753758 | 775477 | 796162 | 815901 | 834791 | 30 |
| 31 | 7.681647 | 707176 | 731287 | 754129 | 775829 | 796500 | 816219 | 835100 | 29 |
| 32 | 7.682085 | 707589 | 731678 | 754500 | 776183 | 796835 | 816548 | 835408 | 28 |
| 33 | 7.682522 | 708001 | 732068 | 754871 | 776535 | 797171 | 816870 | 835714 | 27 |
| 34 | 7.682960 | 708414 | 732458 | 755241 | 776887 | 797506 | 817190 | 836021 | 26 |
| 35 | 7.683396 | 708825 | 732848 | 755610 | 777239 | 797842 | 817511 | 836328 | 25 |
| 36 | 7.683833 | 709237 | 733237 | 755980 | 777591 | 798177 | 817831 | 836635 | 24 |
| 37 | 7.684268 | 709648 | 733626 | 756349 | 777942 | 798512 | 818152 | 836941 | 23 |
| 38 | 7.684704 | 710059 | 734015 | 756718 | 778293 | 798847 | 818471 | 837248 | 22 |
| 39 | 7.685139 | 710469 | 734403 | 757086 | 778644 | 799181 | 818791 | 837554 | 21 |
| 40 | 7.685573 | 710879 | 734791 | 757455 | 778994 | 799515 | 819111 | 837860 | 20 |
| 41 | 7.686007 | 711288 | 735178 | 757822 | 779345 | 799849 | 819432 | 838166 | 19 |
| 42 | 7.686441 | 711697 | 735566 | 758189 | 779696 | 800183 | 819752 | 838471 | 18 |
| 43 | 7.686874 | 712106 | 735952 | 758557 | 780043 | 800516 | 820068 | 838776 | 17 |
| 44 | 7.687307 | 712515 | 736339 | 758924 | 780393 | 800850 | 820386 | 839081 | 16 |
| 45 | 7.687739 | 712923 | 736725 | 759291 | 780742 | 801182 | 820704 | 839386 | 15 |
| 46 | 7.688171 | 713330 | 737111 | 759657 | 781090 | 801515 | 821022 | 839691 | 14 |
| 47 | 7.688603 | 713737 | 737497 | 760023 | 781439 | 801848 | 821340 | 839995 | 13 |
| 48 | 7.689034 | 714144 | 737882 | 760389 | 781787 | 802180 | 821658 | 840300 | 12 |
| 49 | 7.689464 | 714551 | 738267 | 760754 | 782135 | 802512 | 821975 | 840604 | 11 |
| 50 | 7.689895 | 714957 | 738651 | 761119 | 782482 | 802843 | 822292 | 840907 | 10 |
| 51 | 7.690324 | 715362 | 739035 | 761484 | 782830 | 803175 | 822609 | 841211 | 9 |
| 52 | 7.690754 | 715768 | 739419 | 761849 | 783177 | 803506 | 822926 | 841514 | 8 |
| 53 | 7.691183 | 716173 | 739803 | 762213 | 783523 | 803837 | 823242 | 841818 | 7 |
| 54 | 7.691611 | 716577 | 740186 | 762577 | 783870 | 804167 | 823558 | 842121 | 6 |
| 55 | 7.692039 | 716981 | 740569 | 762940 | 784216 | 804498 | 823874 | 842423 | 5 |
| 56 | 7.692467 | 717385 | 740951 | 763304 | 784562 | 804828 | 824190 | 842726 | 4 |
| 57 | 7.692894 | 717789 | 741333 | 763667 | 784907 | 805158 | 824506 | 843028 | 3 |
| 58 | 7.693321 | 718192 | 741715 | 764029 | 785253 | 805487 | 824821 | 843330 | 2 |
| 59 | 7.693747 | 718594 | 742096 | 764392 | 785598 | 805817 | 825136 | 843632 | 1 |
| 60 | 7.694173 | 718997 | 742478 | 764754 | 785943 | 806146 | 825451 | 843934 | 0 |
| " | 43' | 42' | 41' | 40' | 39' | 38' | 37' | 36' | " |

| " | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | " |
|----|---------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | -66-00 | 72117 | 72003 | 71884 | 71761 | 71634 | 71505 | 71374 | 60 |
| 1 | -66-01 | 72117 | 72003 | 71884 | 71761 | 71634 | 71505 | 71374 | 59 |
| 2 | -66-02 | 72117 | 72003 | 71884 | 71761 | 71634 | 71505 | 71374 | 58 |
| 3 | 7669204 | 695454 | 720207 | 743626 | 765845 | 786984 | 807141 | 826404 | 57 |
| 4 | 7669655 | 695878 | 720608 | 744005 | 766206 | 787327 | 807469 | 826717 | 56 |
| 5 | 7670105 | 696302 | 721009 | 744385 | 766567 | 787671 | 807797 | 827031 | 55 |
| 6 | 7670555 | 696726 | 721409 | 744764 | 766927 | 788014 | 808124 | 827345 | 54 |
| 7 | 7671005 | 697149 | 721808 | 745143 | 767287 | 788357 | 808452 | 827658 | 53 |
| 8 | 7671455 | 697572 | 722208 | 745521 | 767647 | 788700 | 808779 | 827971 | 52 |
| 9 | 7671902 | 697994 | 722607 | 745899 | 768006 | 789042 | 809106 | 828284 | 51 |
| 10 | 7672350 | 698416 | 723005 | 746277 | 768365 | 789384 | 809433 | 828596 | 50 |
| 11 | 7672797 | 698837 | 723404 | 746655 | 768722 | 789726 | 809765 | 828908 | 49 |
| 12 | 7673244 | 699258 | 723802 | 747032 | 769059 | 790067 | 810097 | 829219 | 48 |
| 13 | 7673691 | 699679 | 724199 | 747409 | 769391 | 790399 | 810411 | 829533 | 47 |
| 14 | 7674137 | 700099 | 724596 | 747785 | 769722 | 790730 | 810737 | 829844 | 46 |
| 15 | 7674583 | 700519 | 724993 | 748161 | 770056 | 791061 | 811062 | 830156 | 45 |
| 16 | 7675028 | 700938 | 725390 | 748537 | 770387 | 791393 | 811387 | 830467 | 44 |
| 17 | 7675473 | 701357 | 725786 | 748913 | 770717 | 791724 | 811712 | 830778 | 43 |
| 18 | 7675918 | 701776 | 726181 | 749288 | 771047 | 792055 | 812037 | 831089 | 42 |
| 19 | 7676361 | 702194 | 726577 | 749663 | 771377 | 792386 | 812362 | 831399 | 41 |
| 20 | 7676804 | 702612 | 726972 | 750038 | 771707 | 792717 | 812686 | 831710 | 40 |
| 21 | 7677247 | 703029 | 727366 | 750412 | 772037 | 793047 | 813010 | 832020 | 39 |
| 22 | 7677690 | 703446 | 727761 | 750786 | 772367 | 793378 | 813334 | 832330 | 38 |
| 23 | 7678132 | 703863 | 728155 | 751159 | 772697 | 793707 | 813657 | 832639 | 37 |
| 24 | 7678573 | 704279 | 728548 | 751532 | 773027 | 794037 | 813980 | 832949 | 36 |
| 25 | 7679014 | 704695 | 728941 | 751905 | 773357 | 794367 | 814303 | 833258 | 35 |
| 26 | 7679455 | 705110 | 729334 | 752278 | 773687 | 794697 | 814626 | 833567 | 34 |
| 27 | 7679895 | 705525 | 729727 | 752650 | 774017 | 795027 | 814949 | 833876 | 33 |
| 28 | 7680335 | 705940 | 730119 | 753022 | 774347 | 795357 | 815271 | 834184 | 32 |
| 29 | 7680775 | 706354 | 730511 | 753394 | 774677 | 795687 | 815594 | 834493 | 31 |
| 30 | 7681215 | 706768 | 730903 | 753766 | 775007 | 796017 | 815917 | 834801 | 30 |
| 31 | 7681655 | 707182 | 731295 | 754138 | 775337 | 796347 | 816240 | 835109 | 29 |
| 32 | 7682090 | 707594 | 731684 | 754507 | 775667 | 796677 | 816563 | 835416 | 28 |
| 33 | 7682527 | 708007 | 732074 | 754878 | 775997 | 797007 | 816886 | 835724 | 27 |
| 34 | 7682965 | 708419 | 732464 | 755248 | 776327 | 797337 | 817209 | 836031 | 26 |
| 35 | 7683401 | 708831 | 732854 | 755617 | 776657 | 797667 | 817532 | 836338 | 25 |
| 36 | 7683838 | 709243 | 733243 | 755987 | 776987 | 797997 | 817855 | 836645 | 24 |
| 37 | 7684273 | 709654 | 733632 | 756356 | 777317 | 798327 | 818178 | 836952 | 23 |
| 38 | 7684709 | 710064 | 734021 | 756725 | 777647 | 798657 | 818501 | 837258 | 22 |
| 39 | 7685144 | 710475 | 734409 | 757093 | 777977 | 798987 | 818824 | 837564 | 21 |
| 40 | 7685578 | 710885 | 734797 | 757462 | 778307 | 799317 | 819147 | 837871 | 20 |
| 41 | 7686012 | 711294 | 735185 | 757830 | 778637 | 799647 | 819470 | 838177 | 19 |
| 42 | 7686446 | 711703 | 735572 | 758197 | 778967 | 800000 | 819793 | 838481 | 18 |
| 43 | 7686879 | 712112 | 735959 | 758564 | 779297 | 800330 | 820116 | 838787 | 17 |
| 44 | 7687312 | 712520 | 736345 | 758931 | 779627 | 800660 | 820439 | 839092 | 16 |
| 45 | 7687744 | 712928 | 736732 | 759298 | 779957 | 800990 | 820762 | 839397 | 15 |
| 46 | 7688176 | 713336 | 737118 | 759664 | 780287 | 801320 | 821085 | 839701 | 14 |
| 47 | 7688608 | 713743 | 737503 | 760030 | 780617 | 801649 | 821408 | 840006 | 13 |
| 48 | 7689039 | 714150 | 737888 | 760396 | 780947 | 801979 | 821731 | 840310 | 12 |
| 49 | 7689469 | 714556 | 738273 | 760762 | 781277 | 802309 | 822054 | 840614 | 11 |
| 50 | 7689900 | 714963 | 738658 | 761127 | 781607 | 802639 | 822377 | 840918 | 10 |
| 51 | 7690330 | 715368 | 739042 | 761491 | 781937 | 802969 | 822700 | 841221 | 9 |
| 52 | 7690759 | 715774 | 739426 | 761856 | 782267 | 803299 | 823023 | 841525 | 8 |
| 53 | 7691188 | 716179 | 739809 | 762220 | 782597 | 803629 | 823346 | 841828 | 7 |
| 54 | 7691616 | 716583 | 740192 | 762584 | 782927 | 803959 | 823669 | 842131 | 6 |
| 55 | 7692044 | 716987 | 740575 | 762948 | 783257 | 804289 | 823992 | 842434 | 5 |
| 56 | 7692472 | 717391 | 740958 | 763311 | 783587 | 804619 | 824315 | 842736 | 4 |
| 57 | 7692899 | 717795 | 741340 | 763674 | 783917 | 804949 | 824638 | 843039 | 3 |
| 58 | 7693326 | 718198 | 741722 | 764037 | 784247 | 805279 | 824961 | 843341 | 2 |
| 59 | 7693753 | 718600 | 742103 | 764399 | 784577 | 805609 | 825284 | 843643 | 1 |
| 60 | 7694179 | 719003 | 742484 | 764761 | 784907 | 805939 | 825607 | 843944 | 0 |
| " | 43' | 42' | 41' | 40' | 39' | 38' | 37' | 36' | " |

| " | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 7.843934 | 861662 | 878695 | 895085 | 910879 | 926119 | 940842 | 955082 | 60 |
| 1 | 7.844235 | 861952 | 878974 | 895353 | 911138 | 926368 | 941083 | 955315 | 59 |
| 2 | 7.844537 | 862241 | 879252 | 895621 | 911396 | 926618 | 941324 | 955549 | 58 |
| 3 | 7.844838 | 862530 | 879530 | 895889 | 911654 | 926867 | 941565 | 955782 | 57 |
| 4 | 7.845139 | 862819 | 879807 | 896156 | 911912 | 927116 | 941806 | 956015 | 56 |
| 5 | 7.845439 | 863108 | 880085 | 896424 | 912170 | 927365 | 942047 | 956248 | 55 |
| 6 | 7.845740 | 863396 | 880362 | 896691 | 912428 | 927614 | 942287 | 956481 | 54 |
| 7 | 7.846040 | 863684 | 880640 | 896958 | 912685 | 927863 | 942527 | 956713 | 53 |
| 8 | 7.846340 | 863972 | 880917 | 897225 | 912942 | 928111 | 942768 | 956946 | 52 |
| 9 | 7.846640 | 864260 | 881195 | 897491 | 913200 | 928359 | 943008 | 957178 | 51 |
| 10 | 7.846939 | 864548 | 881472 | 897758 | 913457 | 928607 | 943248 | 957411 | 50 |
| 11 | 7.847239 | 864835 | 881750 | 898025 | 913714 | 928855 | 943488 | 957643 | 49 |
| 12 | 7.847538 | 865123 | 882023 | 898290 | 913970 | 929104 | 943727 | 957875 | 48 |
| 13 | 7.847837 | 865410 | 882299 | 898557 | 914227 | 929352 | 943967 | 958107 | 47 |
| 14 | 7.848136 | 865697 | 882575 | 898822 | 914483 | 929599 | 944207 | 958338 | 46 |
| 15 | 7.848434 | 865984 | 882851 | 899088 | 914740 | 929847 | 944446 | 958570 | 45 |
| 16 | 7.848733 | 866270 | 883127 | 899354 | 914996 | 930094 | 944685 | 958802 | 44 |
| 17 | 7.849031 | 866557 | 883402 | 899619 | 915252 | 930341 | 944924 | 959033 | 43 |
| 18 | 7.849329 | 866843 | 883678 | 899884 | 915508 | 930588 | 945163 | 959264 | 42 |
| 19 | 7.849627 | 867129 | 883953 | 900149 | 915765 | 930835 | 945402 | 959496 | 41 |
| 20 | 7.849924 | 867415 | 884228 | 900414 | 916021 | 931082 | 945641 | 959727 | 40 |
| 21 | 7.850221 | 867700 | 884502 | 900679 | 916274 | 931329 | 945879 | 959958 | 39 |
| 22 | 7.850519 | 867986 | 884777 | 900943 | 916529 | 931575 | 946118 | 960188 | 38 |
| 23 | 7.850816 | 868271 | 885052 | 901208 | 916785 | 931822 | 946356 | 960419 | 37 |
| 24 | 7.851112 | 868556 | 885326 | 901472 | 917040 | 932068 | 946594 | 960650 | 36 |
| 25 | 7.851409 | 868841 | 885600 | 901736 | 917294 | 932314 | 946832 | 960880 | 35 |
| 26 | 7.851705 | 869125 | 885874 | 902000 | 917549 | 932560 | 947070 | 961111 | 34 |
| 27 | 7.852001 | 869410 | 886148 | 902264 | 917803 | 932806 | 947308 | 961341 | 33 |
| 28 | 7.852297 | 869694 | 886421 | 902527 | 918058 | 933052 | 947545 | 961571 | 32 |
| 29 | 7.852593 | 869979 | 886694 | 902791 | 918312 | 933297 | 947783 | 961801 | 31 |
| 30 | 7.852889 | 870262 | 886968 | 903054 | 918566 | 933543 | 948020 | 962031 | 30 |
| 31 | 7.853184 | 870546 | 887241 | 903317 | 918820 | 933788 | 948258 | 962260 | 29 |
| 32 | 7.853479 | 870830 | 887514 | 903580 | 919074 | 934033 | 948495 | 962490 | 28 |
| 33 | 7.853774 | 871113 | 887786 | 903843 | 919327 | 934278 | 948732 | 962719 | 27 |
| 34 | 7.854069 | 871396 | 888059 | 904106 | 919581 | 934523 | 948968 | 962949 | 26 |
| 35 | 7.854363 | 871679 | 888331 | 904368 | 919834 | 934768 | 949205 | 963178 | 25 |
| 36 | 7.854658 | 871962 | 888603 | 904631 | 920087 | 935012 | 949442 | 963407 | 24 |
| 37 | 7.854952 | 872245 | 888875 | 904893 | 920340 | 935257 | 949678 | 963636 | 23 |
| 38 | 7.855246 | 872527 | 889147 | 905155 | 920593 | 935501 | 949915 | 963865 | 22 |
| 39 | 7.855539 | 872809 | 889419 | 905417 | 920846 | 935745 | 950151 | 964094 | 21 |
| 40 | 7.855833 | 873092 | 889690 | 905678 | 921098 | 935989 | 950387 | 964322 | 20 |
| 41 | 7.856126 | 873373 | 889962 | 905940 | 921351 | 936233 | 950623 | 964551 | 19 |
| 42 | 7.856419 | 873655 | 890233 | 906201 | 921603 | 936477 | 950859 | 964779 | 18 |
| 43 | 7.856712 | 873937 | 890504 | 906462 | 921855 | 936721 | 951094 | 965007 | 17 |
| 44 | 7.857005 | 874218 | 890775 | 906723 | 922107 | 936964 | 951330 | 965236 | 16 |
| 45 | 7.857298 | 874499 | 891046 | 906984 | 922359 | 937208 | 951565 | 965464 | 15 |
| 46 | 7.857590 | 874780 | 891316 | 907245 | 922611 | 937451 | 951801 | 965692 | 14 |
| 47 | 7.857882 | 875061 | 891586 | 907506 | 922862 | 937694 | 952036 | 965919 | 13 |
| 48 | 7.858174 | 875342 | 891857 | 907766 | 923114 | 937937 | 952271 | 966147 | 12 |
| 49 | 7.858466 | 875622 | 892127 | 908026 | 923365 | 938180 | 952506 | 966375 | 11 |
| 50 | 7.858757 | 875902 | 892396 | 908287 | 923616 | 938422 | 952741 | 966602 | 10 |
| 51 | 7.859049 | 876183 | 892666 | 908547 | 923867 | 938665 | 952975 | 966829 | 9 |
| 52 | 7.859340 | 876464 | 892935 | 908806 | 924118 | 938907 | 953210 | 967057 | 8 |
| 53 | 7.859631 | 876744 | 893205 | 909066 | 924368 | 939150 | 953444 | 967284 | 7 |
| 54 | 7.859922 | 877022 | 893474 | 909326 | 924619 | 939392 | 953679 | 967511 | 6 |
| 55 | 7.860212 | 877301 | 893743 | 909585 | 924869 | 939634 | 953913 | 967737 | 5 |
| 56 | 7.860503 | 877580 | 894012 | 909844 | 925119 | 939876 | 954147 | 967964 | 4 |
| 57 | 7.860793 | 877859 | 894280 | 910103 | 925370 | 940117 | 954381 | 968191 | 3 |
| 58 | 7.861083 | 878138 | 894549 | 910362 | 925619 | 940359 | 954615 | 968417 | 2 |
| 59 | 7.861373 | 878417 | 894817 | 910621 | 925869 | 940601 | 954848 | 968644 | 1 |
| 60 | 7.861662 | 878695 | 895085 | 910879 | 926119 | 940842 | 955082 | 968870 | 0 |
| " | 35' | 34' | 33' | 32' | 31' | 30' | 29' | 28' | " |

| " | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 7 843944 | 861674 | 878708 | 895099 | 910894 | 926134 | 940858 | 955100 | 60 |
| 1 | 7.844246 | 861963 | 878986 | 895367 | 911152 | 926384 | 941100 | 955333 | 59 |
| 2 | 7.844547 | 862252 | 879264 | 895635 | 911410 | 926633 | 941341 | 955566 | 58 |
| 3 | 7.844848 | 862542 | 879542 | 895902 | 911669 | 926883 | 941582 | 955800 | 57 |
| 4 | 7.845149 | 862830 | 879820 | 896170 | 911927 | 927132 | 941822 | 956033 | 56 |
| 5 | 7.845450 | 863119 | 880098 | 896437 | 912184 | 927381 | 942063 | 956266 | 55 |
| 6 | 7.845750 | 863408 | 880375 | 896704 | 912442 | 927629 | 942304 | 956498 | 54 |
| 7 | 7.846051 | 863696 | 880652 | 896971 | 912700 | 927878 | 942544 | 956731 | 53 |
| 8 | 7.846351 | 863984 | 880929 | 897238 | 912957 | 928127 | 942784 | 956964 | 52 |
| 9 | 7.846650 | 864272 | 881206 | 897505 | 913214 | 928375 | 943025 | 957196 | 51 |
| 10 | 7.846950 | 864560 | 881483 | 897772 | 913471 | 928623 | 943265 | 957428 | 50 |
| 11 | 7.847249 | 864847 | 881759 | 898038 | 913728 | 928871 | 943504 | 957661 | 49 |
| 12 | 7.847549 | 865134 | 882036 | 898304 | 913985 | 929119 | 943744 | 957893 | 48 |
| 13 | 7.847848 | 865422 | 882312 | 898570 | 914242 | 929367 | 943984 | 958125 | 47 |
| 14 | 7.848146 | 865709 | 882588 | 898836 | 914498 | 929615 | 944223 | 958356 | 46 |
| 15 | 7.848445 | 865995 | 882864 | 899102 | 914754 | 929862 | 944463 | 958588 | 45 |
| 16 | 7.848743 | 866282 | 883140 | 899367 | 915011 | 930110 | 944702 | 958820 | 44 |
| 17 | 7.849042 | 866568 | 883415 | 899633 | 915267 | 930357 | 944941 | 959051 | 43 |
| 18 | 7.849340 | 866854 | 883690 | 899898 | 915522 | 930604 | 945180 | 959282 | 42 |
| 19 | 7.849637 | 867140 | 883965 | 900163 | 915778 | 930851 | 945419 | 959514 | 41 |
| 20 | 7.849935 | 867426 | 884240 | 900428 | 916034 | 931098 | 945658 | 959745 | 40 |
| 21 | 7.850232 | 867712 | 884515 | 900693 | 916289 | 931345 | 945896 | 959977 | 39 |
| 22 | 7.850530 | 867997 | 884790 | 900957 | 916544 | 931591 | 946135 | 960207 | 38 |
| 23 | 7.850826 | 868283 | 885064 | 901222 | 916799 | 931838 | 946373 | 960437 | 37 |
| 24 | 7.851123 | 868568 | 885339 | 901486 | 917054 | 932084 | 946611 | 960668 | 36 |
| 25 | 7.851420 | 868853 | 885613 | 901750 | 917309 | 932330 | 946849 | 960898 | 35 |
| 26 | 7.851716 | 869137 | 885887 | 902014 | 917564 | 932576 | 947087 | 961129 | 34 |
| 27 | 7.852012 | 869422 | 886160 | 902278 | 917818 | 932822 | 947325 | 961359 | 33 |
| 28 | 7.852308 | 869706 | 886434 | 902541 | 918073 | 933068 | 947562 | 961589 | 32 |
| 29 | 7.852604 | 869990 | 886707 | 902805 | 918327 | 933313 | 947800 | 961819 | 31 |
| 30 | 7.852900 | 870274 | 886981 | 903068 | 918581 | 933559 | 948037 | 962049 | 30 |
| 31 | 7.853195 | 870558 | 887254 | 903331 | 918835 | 933804 | 948275 | 962279 | 29 |
| 32 | 7.853490 | 870842 | 887527 | 903594 | 919089 | 934049 | 948512 | 962508 | 28 |
| 33 | 7.853785 | 871125 | 887799 | 903857 | 919342 | 934294 | 948749 | 962738 | 27 |
| 34 | 7.854080 | 871408 | 888072 | 904120 | 919596 | 934539 | 948986 | 962967 | 26 |
| 35 | 7.854374 | 871691 | 888344 | 904382 | 919849 | 934784 | 949222 | 963196 | 25 |
| 36 | 7.854669 | 871974 | 888616 | 904645 | 920102 | 935029 | 949459 | 963425 | 24 |
| 37 | 7.854963 | 872257 | 888888 | 904907 | 920355 | 935273 | 949696 | 963654 | 23 |
| 38 | 7.855257 | 872539 | 889160 | 905169 | 920608 | 935517 | 949932 | 963883 | 22 |
| 39 | 7.855550 | 872822 | 889432 | 905431 | 920861 | 935762 | 950168 | 964112 | 21 |
| 40 | 7.855844 | 873104 | 889704 | 905692 | 921113 | 936006 | 950404 | 964341 | 20 |
| 41 | 7.856137 | 873386 | 889975 | 905954 | 921366 | 936250 | 950640 | 964569 | 19 |
| 42 | 7.856431 | 873667 | 890246 | 906215 | 921618 | 936493 | 950876 | 964798 | 18 |
| 43 | 7.856724 | 873949 | 890517 | 906477 | 921870 | 936737 | 951112 | 965026 | 17 |
| 44 | 7.857016 | 874230 | 890788 | 906738 | 922122 | 936981 | 951347 | 965254 | 16 |
| 45 | 7.857309 | 874511 | 891059 | 906999 | 922374 | 937224 | 951583 | 965482 | 15 |
| 46 | 7.857601 | 874792 | 891329 | 907259 | 922626 | 937467 | 951818 | 965710 | 14 |
| 47 | 7.857893 | 875073 | 891600 | 907520 | 922877 | 937710 | 952053 | 965938 | 13 |
| 48 | 7.858185 | 875354 | 891870 | 907780 | 923129 | 937953 | 952288 | 966166 | 12 |
| 49 | 7.858477 | 875634 | 892140 | 908041 | 923380 | 938196 | 952523 | 966393 | 11 |
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| 51 | 7.859060 | 876195 | 892679 | 908561 | 923882 | 938681 | 952993 | 966848 | 9 |
| 52 | 7.859351 | 876475 | 892949 | 908821 | 924133 | 938924 | 953228 | 967075 | 8 |
| 53 | 7.859642 | 876755 | 893218 | 909080 | 924384 | 939166 | 953462 | 967302 | 7 |
| 54 | 7.859933 | 877034 | 893487 | 909340 | 924634 | 939408 | 953696 | 967529 | 6 |
| 55 | 7.860224 | 877313 | 893756 | 909599 | 924885 | 939650 | 953930 | 967756 | 5 |
| 56 | 7.860514 | 877593 | 894025 | 909858 | 925135 | 939892 | 954165 | 967983 | 4 |
| 57 | 7.860804 | 877872 | 894294 | 910117 | 925385 | 940134 | 954399 | 968209 | 3 |
| 58 | 7.861094 | 878151 | 894562 | 910376 | 925635 | 940376 | 954632 | 968436 | 2 |
| 59 | 7.861384 | 878429 | 894831 | 910635 | 925885 | 940617 | 954866 | 968662 | 1 |
| 60 | 7.861674 | 878708 | 895099 | 910894 | 926134 | 940858 | 955100 | 968889 | 0 |
| " | 35' | 34' | 33' | 32' | 31' | 30' | 29' | 28' | " |

| " | 32' | 33' | 34' | 35' | 36' | 37' | 38' | 39' | " |
|----|----------|--------|--------|--------|----------|--------|--------|--------|----|
| 0 | 7.968870 | 982233 | 995198 | 007787 | 8.020021 | 031919 | 043501 | 054781 | 60 |
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| 2 | 7.969322 | 982672 | 995624 | 008200 | 8.020423 | 032311 | 043882 | 055152 | 58 |
| 3 | 7.969548 | 982891 | 995836 | 008407 | 8.020623 | 032506 | 044072 | 055338 | 57 |
| 4 | 7.969774 | 983110 | 996049 | 008613 | 8.020824 | 032701 | 044262 | 055523 | 56 |
| 5 | 7.969999 | 983329 | 996261 | 008819 | 8.021025 | 032896 | 044452 | 055708 | 55 |
| 6 | 7.970225 | 983547 | 996473 | 009026 | 8.021225 | 033092 | 044642 | 055894 | 54 |
| 7 | 7.970450 | 983766 | 996686 | 009232 | 8.021426 | 033287 | 044832 | 056079 | 53 |
| 8 | 7.970676 | 983985 | 996898 | 009438 | 8.021626 | 033482 | 045022 | 056264 | 52 |
| 9 | 7.970901 | 984203 | 997110 | 009644 | 8.021826 | 033676 | 045212 | 056448 | 51 |
| 10 | 7.971126 | 984421 | 997322 | 009849 | 8.022027 | 033871 | 045401 | 056632 | 50 |
| 11 | 7.971351 | 984639 | 997533 | 010054 | 8.022227 | 034066 | 045591 | 056816 | 49 |
| 12 | 7.971576 | 984857 | 997745 | 010261 | 8.022427 | 034261 | 045781 | 057003 | 48 |
| 13 | 7.971800 | 985075 | 997957 | 010467 | 8.022627 | 034455 | 045970 | 057187 | 47 |
| 14 | 7.972025 | 985293 | 998168 | 010672 | 8.022826 | 034650 | 046159 | 057372 | 46 |
| 15 | 7.972249 | 985511 | 998380 | 010878 | 8.023026 | 034844 | 046349 | 057556 | 45 |
| 16 | 7.972474 | 985729 | 998591 | 011083 | 8.023226 | 035038 | 046538 | 057741 | 44 |
| 17 | 7.972698 | 985946 | 998802 | 011288 | 8.023425 | 035232 | 046727 | 057925 | 43 |
| 18 | 7.972922 | 986164 | 999013 | 011493 | 8.023625 | 035426 | 046916 | 058109 | 42 |
| 19 | 7.973146 | 986381 | 999224 | 011698 | 8.023825 | 035620 | 047105 | 058292 | 41 |
| 20 | 7.973370 | 986598 | 999435 | 011903 | 8.024025 | 035814 | 047294 | 058475 | 40 |
| 21 | 7.973594 | 986815 | 999646 | 012108 | 8.024225 | 036008 | 047483 | 058658 | 39 |
| 22 | 7.973818 | 987032 | 999856 | 012313 | 8.024425 | 036202 | 047672 | 058841 | 38 |
| 23 | 7.974041 | 987249 | 000067 | 012518 | 8.024625 | 036396 | 047861 | 059024 | 37 |
| 24 | 7.974265 | 987466 | 000277 | 012722 | 8.024825 | 036589 | 048049 | 059207 | 36 |
| 25 | 7.974488 | 987682 | 000488 | 012926 | 8.025025 | 036783 | 048237 | 059390 | 35 |
| 26 | 7.974711 | 987899 | 000698 | 013130 | 8.025225 | 036976 | 048425 | 059574 | 34 |
| 27 | 7.974934 | 988115 | 000908 | 013335 | 8.025425 | 037169 | 048613 | 059763 | 33 |
| 28 | 7.975157 | 988332 | 001118 | 013539 | 8.025625 | 037363 | 048802 | 059947 | 32 |
| 29 | 7.975380 | 988548 | 001328 | 013743 | 8.025825 | 037556 | 048990 | 060130 | 31 |
| 30 | 7.975603 | 988764 | 001538 | 013947 | 8.026025 | 037749 | 049178 | 060314 | 30 |
| 31 | 7.975826 | 988980 | 001748 | 014151 | 8.026225 | 037942 | 049366 | 060497 | 29 |
| 32 | 7.976048 | 989196 | 001957 | 014354 | 8.026425 | 038135 | 049554 | 060680 | 28 |
| 33 | 7.976271 | 989412 | 002167 | 014558 | 8.026625 | 038327 | 049741 | 060863 | 27 |
| 34 | 7.976493 | 989627 | 002376 | 014762 | 8.026825 | 038520 | 049929 | 061046 | 26 |
| 35 | 7.976715 | 989843 | 002586 | 014965 | 8.027025 | 038713 | 050117 | 061229 | 25 |
| 36 | 7.976937 | 990053 | 002795 | 015168 | 8.027225 | 038905 | 050304 | 061412 | 24 |
| 37 | 7.977159 | 990274 | 003004 | 015372 | 8.027425 | 039098 | 050492 | 061594 | 23 |
| 38 | 7.977381 | 990489 | 003213 | 015575 | 8.027625 | 039290 | 050679 | 061777 | 22 |
| 39 | 7.977603 | 990704 | 003422 | 015778 | 8.027825 | 039482 | 050866 | 061960 | 21 |
| 40 | 7.977826 | 990919 | 003631 | 015981 | 8.028025 | 039674 | 051054 | 062142 | 20 |
| 41 | 7.978048 | 991134 | 003840 | 016184 | 8.028225 | 039866 | 051241 | 062325 | 19 |
| 42 | 7.978267 | 991349 | 004048 | 016387 | 8.028425 | 040059 | 051428 | 062507 | 18 |
| 43 | 7.978489 | 991564 | 004257 | 016589 | 8.028625 | 040251 | 051615 | 062689 | 17 |
| 44 | 7.978710 | 991778 | 004465 | 016792 | 8.028825 | 040443 | 051802 | 062871 | 16 |
| 45 | 7.978931 | 991993 | 004674 | 016994 | 8.029025 | 040634 | 051989 | 063054 | 15 |
| 46 | 7.979152 | 992207 | 004882 | 017197 | 8.029225 | 040826 | 052175 | 063236 | 14 |
| 47 | 7.979373 | 992422 | 005090 | 017399 | 8.029425 | 041018 | 052362 | 063418 | 13 |
| 48 | 7.979593 | 992636 | 005298 | 017601 | 8.029625 | 041209 | 052549 | 063599 | 12 |
| 49 | 7.979814 | 992850 | 005506 | 017803 | 8.029825 | 041401 | 052735 | 063781 | 11 |
| 50 | 7.980034 | 993064 | 005714 | 018005 | 8.029959 | 041592 | 052922 | 063963 | 10 |
| 51 | 7.980255 | 993278 | 005921 | 018207 | 8.030155 | 041783 | 053108 | 064145 | 9 |
| 52 | 7.980475 | 993492 | 006129 | 018409 | 8.030352 | 041974 | 053294 | 064326 | 8 |
| 53 | 7.980695 | 993705 | 006337 | 018611 | 8.030548 | 042166 | 053480 | 064508 | 7 |
| 54 | 7.980915 | 993919 | 006544 | 018813 | 8.030744 | 042357 | 053666 | 064689 | 6 |
| 55 | 7.981135 | 994132 | 006751 | 019014 | 8.030940 | 042547 | 053852 | 064871 | 5 |
| 56 | 7.981355 | 994346 | 006959 | 019216 | 8.031136 | 042738 | 054038 | 065052 | 4 |
| 57 | 7.981575 | 994559 | 007166 | 019417 | 8.031332 | 042929 | 054224 | 065233 | 3 |
| 58 | 7.981794 | 994772 | 007373 | 019618 | 8.031528 | 043120 | 054410 | 065414 | 2 |
| 59 | 7.982014 | 994985 | 007580 | 019820 | 8.031724 | 043310 | 054596 | 065595 | 1 |
| 60 | 7.982233 | 995198 | 007787 | 020021 | 8.031919 | 043501 | 054781 | 065776 | 0 |
| " | 27' | 26' | 25' | 24' | 23' | 22' | 21' | 20' | " |

| " | 32' | 33' | 34' | 35' | 36' | 37' | 38' | 39' | " |
|----|----------|--------|--------|--------|----------|--------|--------|--------|----|
| 0 | 7.968889 | 982553 | 995219 | 007809 | 8.020044 | 031945 | 043527 | 054809 | 60 |
| 1 | 7.969115 | 982473 | 995432 | 008016 | 8.020246 | 032140 | 043718 | 054995 | 59 |
| 2 | 7.969341 | 982692 | 995645 | 008223 | 8.020446 | 032336 | 043908 | 055180 | 58 |
| 3 | 7.969567 | 982911 | 995857 | 008429 | 8.020647 | 032531 | 044098 | 055366 | 57 |
| 4 | 7.969793 | 983130 | 996070 | 008636 | 8.020848 | 032726 | 044289 | 055551 | 56 |
| 5 | 7.970018 | 983349 | 996282 | 008842 | 8.021049 | 032922 | 044479 | 055736 | 55 |
| 6 | 7.970244 | 983568 | 996495 | 009048 | 8.021249 | 033117 | 044669 | 055922 | 54 |
| 7 | 7.970469 | 983786 | 996707 | 009255 | 8.021450 | 033312 | 044859 | 056107 | 53 |
| 8 | 7.970695 | 984005 | 996919 | 009461 | 8.021650 | 033507 | 045049 | 056292 | 52 |
| 9 | 7.970921 | 984223 | 997131 | 009667 | 8.021851 | 033702 | 045238 | 056477 | 51 |
| 10 | 7.971145 | 984441 | 997343 | 009872 | 8.022051 | 033897 | 045428 | 056662 | 50 |
| 11 | 7.971370 | 984660 | 997555 | 010078 | 8.022251 | 034091 | 045618 | 056846 | 49 |
| 12 | 7.971595 | 984878 | 997767 | 010284 | 8.022451 | 034286 | 045807 | 057031 | 48 |
| 13 | 7.971819 | 985096 | 997978 | 010490 | 8.022651 | 034481 | 045997 | 057216 | 47 |
| 14 | 7.972044 | 985314 | 998190 | 010695 | 8.022850 | 034675 | 046186 | 057400 | 46 |
| 15 | 7.972269 | 985531 | 998401 | 010900 | 8.023050 | 034869 | 046375 | 057585 | 45 |
| 16 | 7.972493 | 985749 | 998612 | 011106 | 8.023250 | 035064 | 046565 | 057769 | 44 |
| 17 | 7.972717 | 985967 | 998824 | 011311 | 8.023449 | 035258 | 046754 | 057953 | 43 |
| 18 | 7.972941 | 986184 | 999035 | 011516 | 8.023649 | 035452 | 046943 | 058138 | 42 |
| 19 | 7.973165 | 986401 | 999246 | 011721 | 8.023848 | 035646 | 047132 | 058322 | 41 |
| 20 | 7.973389 | 986618 | 999457 | 011926 | 8.024048 | 035840 | 047321 | 058506 | 40 |
| 21 | 7.973613 | 986836 | 999667 | 012131 | 8.024247 | 036034 | 047510 | 058690 | 39 |
| 22 | 7.973837 | 987053 | 999878 | 012336 | 8.024446 | 036228 | 047698 | 058874 | 38 |
| 23 | 7.974061 | 987269 | 000089 | 012540 | 8.024645 | 036421 | 047887 | 059058 | 37 |
| 24 | 7.974284 | 987486 | 000299 | 012745 | 8.024844 | 036615 | 048075 | 059241 | 36 |
| 25 | 7.974507 | 987703 | 000509 | 012949 | 8.025043 | 036808 | 048264 | 059425 | 35 |
| 26 | 7.974731 | 987919 | 000720 | 013154 | 8.025241 | 037002 | 048452 | 059609 | 34 |
| 27 | 7.974954 | 988136 | 000930 | 013358 | 8.025440 | 037195 | 048641 | 059792 | 33 |
| 28 | 7.975177 | 988352 | 001140 | 013562 | 8.025638 | 037388 | 048829 | 059976 | 32 |
| 29 | 7.975400 | 988569 | 001350 | 013766 | 8.025837 | 037582 | 049017 | 060159 | 31 |
| 30 | 7.975622 | 988785 | 001560 | 013970 | 8.026035 | 037775 | 049205 | 060342 | 30 |
| 31 | 7.975845 | 989001 | 001770 | 014174 | 8.026234 | 037968 | 049393 | 060526 | 29 |
| 32 | 7.976068 | 989217 | 001979 | 014378 | 8.026432 | 038161 | 049581 | 060709 | 28 |
| 33 | 7.976290 | 989432 | 002189 | 014581 | 8.026630 | 038353 | 049769 | 060892 | 27 |
| 34 | 7.976515 | 989648 | 002398 | 014785 | 8.026828 | 038546 | 049956 | 061075 | 26 |
| 35 | 7.976735 | 989864 | 002608 | 014988 | 8.027026 | 038739 | 050144 | 061258 | 25 |
| 36 | 7.976957 | 990079 | 002817 | 015192 | 8.027224 | 038931 | 050332 | 061441 | 24 |
| 37 | 7.977179 | 990295 | 003026 | 015395 | 8.027421 | 039124 | 050519 | 061623 | 23 |
| 38 | 7.977401 | 990510 | 003235 | 015598 | 8.027619 | 039316 | 050707 | 061806 | 22 |
| 39 | 7.977622 | 990725 | 003444 | 015801 | 8.027817 | 039508 | 050894 | 061989 | 21 |
| 40 | 7.977844 | 990940 | 003653 | 016004 | 8.028015 | 039701 | 051081 | 062171 | 20 |
| 41 | 7.978066 | 991155 | 003862 | 016207 | 8.028211 | 039893 | 051268 | 062354 | 19 |
| 42 | 7.978287 | 991370 | 004070 | 016410 | 8.028409 | 040085 | 051455 | 062537 | 18 |
| 43 | 7.978508 | 991585 | 004279 | 016613 | 8.028606 | 040277 | 051642 | 062718 | 17 |
| 44 | 7.978729 | 991799 | 004487 | 016815 | 8.028803 | 040469 | 051829 | 062900 | 16 |
| 45 | 7.978951 | 992014 | 004696 | 017018 | 8.029000 | 040661 | 052016 | 063083 | 15 |
| 46 | 7.979172 | 992228 | 004904 | 017220 | 8.029197 | 040852 | 052203 | 063265 | 14 |
| 47 | 7.979392 | 992443 | 005112 | 017423 | 8.029394 | 041044 | 052390 | 063447 | 13 |
| 48 | 7.979613 | 992657 | 005320 | 017625 | 8.029591 | 041235 | 052576 | 063629 | 12 |
| 49 | 7.979834 | 992871 | 005528 | 017827 | 8.029787 | 041427 | 052763 | 063810 | 11 |
| 50 | 7.980054 | 993085 | 005736 | 018029 | 8.029984 | 041618 | 052949 | 063992 | 10 |
| 51 | 7.980275 | 993299 | 005944 | 018231 | 8.030180 | 041810 | 053136 | 064174 | 9 |
| 52 | 7.980495 | 993513 | 006151 | 018433 | 8.030377 | 042001 | 053322 | 064356 | 8 |
| 53 | 7.980715 | 993726 | 006359 | 018635 | 8.030573 | 042192 | 053508 | 064537 | 7 |
| 54 | 7.980935 | 993940 | 006566 | 018836 | 8.030769 | 042383 | 053694 | 064719 | 6 |
| 55 | 7.981155 | 994153 | 006774 | 019038 | 8.030965 | 042574 | 053880 | 064900 | 5 |
| 56 | 7.981375 | 994367 | 006981 | 019239 | 8.031161 | 042765 | 054066 | 065081 | 4 |
| 57 | 7.981595 | 994580 | 007188 | 019441 | 8.031357 | 042956 | 054252 | 065262 | 3 |
| 58 | 7.981814 | 994793 | 007395 | 019642 | 8.031553 | 043146 | 054438 | 065444 | 2 |
| 59 | 7.982034 | 995006 | 007602 | 019843 | 8.031749 | 043337 | 054624 | 065625 | 1 |
| 60 | 7.982253 | 995219 | 007809 | 020044 | 8.031945 | 043527 | 054809 | 065806 | 0 |
| " | 27' | 26' | 25' | 24' | 23' | 22' | 21' | 20' | " |

| " | 40' | 41' | 42' | 43' | 44' | 45' | 46' | 47' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.065776 | 076500 | 086965 | 097183 | 107167 | 116926 | 126471 | 135810 | 60 |
| 1 | 8.065957 | 076676 | 087137 | 097352 | 107331 | 117087 | 126628 | 135964 | 59 |
| 2 | 8.066138 | 076853 | 087309 | 097520 | 107496 | 117248 | 126786 | 136118 | 58 |
| 3 | 8.066319 | 077029 | 087481 | 097688 | 107660 | 117408 | 126943 | 136272 | 57 |
| 4 | 8.066499 | 077205 | 087653 | 097856 | 107824 | 117569 | 127100 | 136426 | 56 |
| 5 | 8.066680 | 077381 | 087825 | 098024 | 107989 | 117730 | 127257 | 136580 | 55 |
| 6 | 8.066861 | 077558 | 087997 | 098192 | 108153 | 117890 | 127414 | 136733 | 54 |
| 7 | 8.067041 | 077734 | 088169 | 098360 | 108317 | 118051 | 127571 | 136887 | 53 |
| 8 | 8.067221 | 077910 | 088341 | 098528 | 108481 | 118211 | 127728 | 137041 | 52 |
| 9 | 8.067402 | 078086 | 088513 | 098696 | 108645 | 118371 | 127885 | 137194 | 51 |
| 10 | 8.067582 | 078261 | 088684 | 098863 | 108809 | 118532 | 128042 | 137348 | 50 |
| 11 | 8.067762 | 078437 | 088856 | 099031 | 108973 | 118692 | 128198 | 137501 | 49 |
| 12 | 8.067942 | 078613 | 089028 | 099198 | 109136 | 118852 | 128355 | 137654 | 48 |
| 13 | 8.068122 | 078789 | 089199 | 099366 | 109300 | 119012 | 128512 | 137808 | 47 |
| 14 | 8.068302 | 078964 | 089371 | 099533 | 109464 | 119172 | 128668 | 137961 | 46 |
| 15 | 8.068482 | 079140 | 089542 | 099701 | 109627 | 119332 | 128825 | 138114 | 45 |
| 16 | 8.068662 | 079315 | 089713 | 099868 | 109791 | 119492 | 128981 | 138267 | 44 |
| 17 | 8.068842 | 079490 | 089884 | 100035 | 109954 | 119652 | 129138 | 138421 | 43 |
| 18 | 8.069021 | 079666 | 090056 | 100203 | 110118 | 119812 | 129294 | 138574 | 42 |
| 19 | 8.069201 | 079841 | 090227 | 100370 | 110281 | 119971 | 129450 | 138727 | 41 |
| 20 | 8.069380 | 080016 | 090398 | 100537 | 110444 | 120131 | 129607 | 138879 | 40 |
| 21 | 8.069560 | 080191 | 090569 | 100704 | 110608 | 120291 | 129763 | 139032 | 39 |
| 22 | 8.069739 | 080366 | 090739 | 100871 | 110771 | 120450 | 129919 | 139185 | 38 |
| 23 | 8.069918 | 080541 | 090910 | 101038 | 110934 | 120610 | 130075 | 139338 | 37 |
| 24 | 8.070097 | 080716 | 091081 | 101204 | 111097 | 120769 | 130231 | 139491 | 36 |
| 25 | 8.070277 | 080891 | 091252 | 101371 | 111260 | 120929 | 130387 | 139643 | 35 |
| 26 | 8.070456 | 081065 | 091422 | 101538 | 111423 | 121088 | 130543 | 139796 | 34 |
| 27 | 8.070635 | 081240 | 091593 | 101704 | 111586 | 121247 | 130699 | 139949 | 33 |
| 28 | 8.070814 | 081415 | 091763 | 101871 | 111749 | 121407 | 130854 | 140101 | 32 |
| 29 | 8.070992 | 081589 | 091934 | 102037 | 111911 | 121566 | 131010 | 140254 | 31 |
| 30 | 8.071171 | 081764 | 092104 | 102204 | 112074 | 121725 | 131166 | 140406 | 30 |
| 31 | 8.071350 | 081938 | 092274 | 102370 | 112237 | 121884 | 131321 | 140558 | 29 |
| 32 | 8.071528 | 082112 | 092444 | 102536 | 112399 | 122043 | 131477 | 140711 | 28 |
| 33 | 8.071707 | 082287 | 092615 | 102703 | 112562 | 122202 | 131633 | 140863 | 27 |
| 34 | 8.071885 | 082461 | 092785 | 102869 | 112724 | 122361 | 131788 | 141015 | 26 |
| 35 | 8.072064 | 082635 | 092955 | 103035 | 112886 | 122519 | 131943 | 141167 | 25 |
| 36 | 8.072242 | 082809 | 093125 | 103201 | 113049 | 122678 | 132099 | 141319 | 24 |
| 37 | 8.072420 | 082983 | 093294 | 103367 | 113211 | 122837 | 132254 | 141471 | 23 |
| 38 | 8.072598 | 083157 | 093464 | 103533 | 113373 | 122996 | 132409 | 141623 | 22 |
| 39 | 8.072777 | 083330 | 093634 | 103699 | 113535 | 123154 | 132564 | 141775 | 21 |
| 40 | 8.072955 | 083504 | 093804 | 103864 | 113697 | 123313 | 132720 | 141927 | 20 |
| 41 | 8.073133 | 083678 | 093973 | 104030 | 113859 | 123471 | 132875 | 142079 | 19 |
| 42 | 8.073310 | 083852 | 094143 | 104196 | 114021 | 123630 | 133030 | 142231 | 18 |
| 43 | 8.073488 | 084025 | 094312 | 104361 | 114183 | 123788 | 133185 | 142382 | 17 |
| 44 | 8.073666 | 084199 | 094482 | 104527 | 114345 | 123946 | 133339 | 142534 | 16 |
| 45 | 8.073844 | 084372 | 094651 | 104692 | 114507 | 124104 | 133494 | 142686 | 15 |
| 46 | 8.074021 | 084545 | 094820 | 104858 | 114669 | 124263 | 133649 | 142837 | 14 |
| 47 | 8.074199 | 084719 | 094990 | 105023 | 114830 | 124421 | 133804 | 142989 | 13 |
| 48 | 8.074376 | 084892 | 095159 | 105188 | 114992 | 124579 | 133959 | 143140 | 12 |
| 49 | 8.074553 | 085065 | 095328 | 105354 | 115153 | 124737 | 134113 | 143291 | 11 |
| 50 | 8.074731 | 085238 | 095497 | 105519 | 115315 | 124895 | 134268 | 143443 | 10 |
| 51 | 8.074908 | 085411 | 095666 | 105684 | 115476 | 125053 | 134422 | 143594 | 9 |
| 52 | 8.075085 | 085584 | 095835 | 105849 | 115638 | 125210 | 134577 | 143745 | 8 |
| 53 | 8.075262 | 085757 | 096003 | 106014 | 115799 | 125368 | 134731 | 143896 | 7 |
| 54 | 8.075439 | 085929 | 096172 | 106179 | 115960 | 125526 | 134885 | 144048 | 6 |
| 55 | 8.075616 | 086102 | 096341 | 106344 | 116121 | 125684 | 135040 | 144199 | 5 |
| 56 | 8.075793 | 086275 | 096509 | 106508 | 116282 | 125841 | 135194 | 144350 | 4 |
| 57 | 8.075970 | 086447 | 096678 | 106673 | 116443 | 125999 | 135348 | 144501 | 3 |
| 58 | 8.076146 | 086620 | 096846 | 106838 | 116604 | 126156 | 135502 | 144652 | 2 |
| 59 | 8.076323 | 086792 | 097015 | 107002 | 116765 | 126314 | 135656 | 144802 | 1 |
| 60 | 8.076500 | 086965 | 097183 | 107167 | 116926 | 126471 | 135810 | 144953 | 0 |
| " | 19' | 18' | 17' | 16' | 15' | 14' | 13' | 12' | " |

| " | 40' | 41' | 42' | 43' | 44' | 45' | 46' | 47' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 065806 | 076531 | 086997 | 097217 | 107203 | 116963 | 126510 | 135851 | 60 |
| 1 | 8.065987 | 076707 | 087169 | 097386 | 107367 | 117124 | 126667 | 136005 | 59 |
| 2 | 8 066168 | 076884 | 087342 | 097554 | 107531 | 117285 | 126824 | 136159 | 58 |
| 3 | 8 066348 | 077060 | 087514 | 097722 | 107696 | 117446 | 126982 | 136313 | 57 |
| 4 | 8 066529 | 077236 | 087686 | 097890 | 107860 | 117606 | 127139 | 136467 | 56 |
| 5 | 8.066710 | 077412 | 087858 | 098058 | 108024 | 117767 | 127296 | 136610 | 55 |
| 6 | 8.066890 | 077589 | 088030 | 098226 | 108189 | 117928 | 127453 | 136774 | 54 |
| 7 | 8 067071 | 077765 | 088202 | 098394 | 108353 | 118088 | 127610 | 136928 | 53 |
| 8 | 8 067251 | 077941 | 088374 | 098562 | 108517 | 118248 | 127767 | 137081 | 52 |
| 9 | 8.067431 | 078117 | 088545 | 098730 | 108681 | 118409 | 127924 | 137235 | 51 |
| 10 | 8 067612 | 078293 | 088717 | 098897 | 108845 | 118569 | 128081 | 137389 | 50 |
| 11 | 8 067792 | 078468 | 088889 | 099065 | 109009 | 118729 | 128238 | 137542 | 49 |
| 12 | 8 067972 | 078644 | 089060 | 099233 | 109172 | 118890 | 128394 | 137695 | 48 |
| 13 | 8 068152 | 078820 | 089232 | 099400 | 109336 | 119050 | 128551 | 137849 | 47 |
| 14 | 8 068332 | 078995 | 089403 | 099568 | 109500 | 119210 | 128708 | 138002 | 46 |
| 15 | 8.068512 | 079171 | 089575 | 099735 | 109663 | 119370 | 128864 | 138155 | 45 |
| 16 | 8 068692 | 079346 | 089746 | 099902 | 109827 | 119530 | 129021 | 138308 | 44 |
| 17 | 8.068871 | 079522 | 089917 | 100070 | 109990 | 119690 | 129177 | 138462 | 43 |
| 18 | 8 069051 | 079697 | 090088 | 100237 | 110154 | 119849 | 129333 | 138615 | 42 |
| 19 | 8.069231 | 079872 | 090260 | 100404 | 110317 | 120009 | 129490 | 138768 | 41 |
| 20 | 8 069410 | 080047 | 090431 | 100571 | 110481 | 120169 | 129646 | 138921 | 40 |
| 21 | 8 069590 | 080223 | 090602 | 100738 | 110644 | 120329 | 129802 | 139074 | 39 |
| 22 | 8 069769 | 080398 | 090772 | 100905 | 110807 | 120488 | 129958 | 139226 | 38 |
| 23 | 8.069948 | 080573 | 090943 | 101072 | 110970 | 120648 | 130114 | 139379 | 37 |
| 24 | 8 070127 | 080747 | 091114 | 101239 | 111133 | 120807 | 130270 | 139532 | 36 |
| 25 | 8.070307 | 080922 | 091285 | 101406 | 111296 | 120967 | 130426 | 139685 | 35 |
| 26 | 8 070486 | 081097 | 091455 | 101572 | 111459 | 121126 | 130582 | 139837 | 34 |
| 27 | 8.070665 | 081272 | 091626 | 101739 | 111622 | 121285 | 130738 | 139990 | 33 |
| 28 | 8.070844 | 081446 | 091796 | 101906 | 111785 | 121445 | 130894 | 140142 | 32 |
| 29 | 8 071022 | 081621 | 091967 | 102072 | 111948 | 121604 | 131050 | 140295 | 31 |
| 30 | 8.071201 | 081795 | 092137 | 102239 | 112110 | 121763 | 131206 | 140447 | 30 |
| 31 | 8.071380 | 081970 | 092307 | 102405 | 112273 | 121922 | 131361 | 140600 | 29 |
| 32 | 8.071559 | 082144 | 092478 | 102571 | 112436 | 122081 | 131517 | 140752 | 28 |
| 33 | 8 071737 | 082318 | 092648 | 102738 | 112598 | 122240 | 131672 | 140904 | 27 |
| 34 | 8.071916 | 082492 | 092818 | 102904 | 112761 | 122399 | 131828 | 141057 | 26 |
| 35 | 8.072094 | 082667 | 092988 | 103070 | 112923 | 122558 | 131983 | 141209 | 25 |
| 36 | 8 072272 | 082841 | 093158 | 103236 | 113085 | 122716 | 132139 | 141361 | 24 |
| 37 | 8.072451 | 083015 | 093328 | 103402 | 113248 | 122875 | 132294 | 141513 | 23 |
| 38 | 8 072629 | 083189 | 093498 | 103568 | 113410 | 123034 | 132449 | 141665 | 22 |
| 39 | 8 072807 | 083362 | 093667 | 103734 | 113572 | 123192 | 132604 | 141817 | 21 |
| 40 | 8 072985 | 083536 | 093837 | 103900 | 113734 | 123351 | 132760 | 141969 | 20 |
| 41 | 8 073163 | 083710 | 094007 | 104065 | 113896 | 123509 | 132915 | 142121 | 19 |
| 42 | 8.073341 | 083883 | 094176 | 104231 | 114058 | 123668 | 133070 | 142272 | 18 |
| 43 | 8.073519 | 084057 | 094346 | 104397 | 114220 | 123826 | 133225 | 142424 | 17 |
| 44 | 8.073696 | 084231 | 094515 | 104562 | 114382 | 123985 | 133380 | 142576 | 16 |
| 45 | 8.073874 | 084404 | 094685 | 104728 | 114544 | 124143 | 133535 | 142727 | 15 |
| 46 | 8.074052 | 084577 | 094854 | 104893 | 114705 | 124301 | 133689 | 142879 | 14 |
| 47 | 8.074229 | 084751 | 095023 | 105058 | 114867 | 124459 | 133844 | 143031 | 13 |
| 48 | 8.074407 | 084924 | 095192 | 105224 | 115029 | 124617 | 133999 | 143182 | 12 |
| 49 | 8.074584 | 085097 | 095361 | 105389 | 115190 | 124775 | 134153 | 143333 | 11 |
| 50 | 8.074761 | 085270 | 095530 | 105554 | 115352 | 124933 | 134308 | 143485 | 10 |
| 51 | 8.074939 | 085443 | 095699 | 105719 | 115513 | 125091 | 134463 | 143636 | 9 |
| 52 | 8 075116 | 085616 | 095868 | 105884 | 115675 | 125249 | 134617 | 143787 | 8 |
| 53 | 8.075293 | 085789 | 096037 | 106049 | 115836 | 125407 | 134772 | 143939 | 7 |
| 54 | 8.075470 | 085962 | 096206 | 106214 | 115997 | 125565 | 134926 | 144090 | 6 |
| 55 | 8.075647 | 086134 | 096375 | 106379 | 116158 | 125722 | 135080 | 144241 | 5 |
| 56 | 8.075824 | 086307 | 096543 | 106544 | 116319 | 125880 | 135235 | 144392 | 4 |
| 57 | 8.076001 | 086480 | 096712 | 106709 | 116481 | 126037 | 135389 | 144543 | 3 |
| 58 | 8 076177 | 086652 | 096880 | 106873 | 116642 | 126195 | 135543 | 144694 | 2 |
| 59 | 8.076354 | 086825 | 097049 | 107038 | 116803 | 126352 | 135697 | 144845 | 1 |
| 60 | 8 076531 | 086997 | 097217 | 107203 | 116963 | 126510 | 135851 | 144996 | 0 |
| " | 19' | 18' | 17' | 16' | 15' | 14' | 13' | 12' | " |

| " | 48' | 49' | 50' | 51' | 52' | 53' | 54' | 55' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.144953 | 153907 | 162681 | 171280 | 179713 | 187985 | 196102 | 204070 | 60 |
| 1 | 8.145104 | 154055 | 162826 | 171422 | 179852 | 188121 | 196236 | 204202 | 59 |
| 2 | 8.145255 | 154203 | 162970 | 171564 | 179991 | 188258 | 196370 | 204333 | 58 |
| 3 | 8.145405 | 154350 | 163115 | 171706 | 180130 | 188394 | 196504 | 204465 | 57 |
| 4 | 8.145556 | 154498 | 163259 | 171848 | 180269 | 188531 | 196638 | 204596 | 56 |
| 5 | 8.145707 | 154645 | 163404 | 171989 | 180408 | 188667 | 196772 | 204728 | 55 |
| 6 | 8.145857 | 154793 | 163548 | 172131 | 180547 | 188803 | 196905 | 204859 | 54 |
| 7 | 8.146007 | 154940 | 163693 | 172273 | 180686 | 188940 | 197039 | 204990 | 53 |
| 8 | 8.146158 | 155088 | 163837 | 172414 | 180825 | 189076 | 197173 | 205122 | 52 |
| 9 | 8.146308 | 155235 | 163982 | 172556 | 180964 | 189212 | 197307 | 205253 | 51 |
| 10 | 8.146459 | 155382 | 164126 | 172697 | 181103 | 189348 | 197440 | 205384 | 50 |
| 11 | 8.146609 | 155529 | 164270 | 172839 | 181241 | 189484 | 197574 | 205515 | 49 |
| 12 | 8.146759 | 155676 | 164414 | 172980 | 181380 | 189620 | 197707 | 205647 | 48 |
| 13 | 8.146909 | 155823 | 164559 | 173121 | 181519 | 189756 | 197841 | 205778 | 47 |
| 14 | 8.147059 | 155971 | 164703 | 173263 | 181657 | 189892 | 197974 | 205909 | 46 |
| 15 | 8.147209 | 156117 | 164847 | 173404 | 181796 | 190028 | 198108 | 206040 | 45 |
| 16 | 8.147359 | 156264 | 164991 | 173545 | 181934 | 190164 | 198241 | 206171 | 44 |
| 17 | 8.147509 | 156411 | 165135 | 173686 | 182073 | 190300 | 198375 | 206302 | 43 |
| 18 | 8.147659 | 156558 | 165279 | 173827 | 182211 | 190436 | 198508 | 206433 | 42 |
| 19 | 8.147809 | 156705 | 165422 | 173968 | 182349 | 190572 | 198641 | 206563 | 41 |
| 20 | 8.147959 | 156852 | 165566 | 174109 | 182488 | 190707 | 198774 | 206694 | 40 |
| 21 | 8.148108 | 156998 | 165710 | 174250 | 182626 | 190843 | 198908 | 206825 | 39 |
| 22 | 8.148258 | 157145 | 165854 | 174391 | 182764 | 190979 | 199041 | 206956 | 38 |
| 23 | 8.148408 | 157292 | 165997 | 174532 | 182902 | 191114 | 199174 | 207086 | 37 |
| 24 | 8.148557 | 157438 | 166141 | 174673 | 183041 | 191250 | 199307 | 207217 | 36 |
| 25 | 8.148707 | 157585 | 166285 | 174814 | 183179 | 191385 | 199440 | 207348 | 35 |
| 26 | 8.148856 | 157731 | 166428 | 174955 | 183317 | 191521 | 199573 | 207478 | 34 |
| 27 | 8.149006 | 157877 | 166572 | 175095 | 183455 | 191656 | 199706 | 207609 | 33 |
| 28 | 8.149155 | 158024 | 166715 | 175236 | 183593 | 191792 | 199839 | 207739 | 32 |
| 29 | 8.149304 | 158170 | 166859 | 175377 | 183731 | 191927 | 199972 | 207870 | 31 |
| 30 | 8.149453 | 158316 | 167002 | 175517 | 183869 | 192062 | 200104 | 208000 | 30 |
| 31 | 8.149603 | 158463 | 167145 | 175658 | 184006 | 192198 | 200237 | 208131 | 29 |
| 32 | 8.149752 | 158609 | 167288 | 175798 | 184144 | 192333 | 200370 | 208261 | 28 |
| 33 | 8.149901 | 158755 | 167432 | 175939 | 184282 | 192468 | 200503 | 208391 | 27 |
| 34 | 8.150050 | 158901 | 167575 | 176079 | 184420 | 192603 | 200635 | 208522 | 26 |
| 35 | 8.150199 | 159047 | 167718 | 176219 | 184557 | 192738 | 200768 | 208652 | 25 |
| 36 | 8.150348 | 159193 | 167861 | 176360 | 184695 | 192873 | 200901 | 208782 | 24 |
| 37 | 8.150497 | 159339 | 168004 | 176500 | 184832 | 193008 | 201033 | 208912 | 23 |
| 38 | 8.150646 | 159484 | 168147 | 176640 | 184970 | 193143 | 201166 | 209042 | 22 |
| 39 | 8.150794 | 159630 | 168290 | 176780 | 185108 | 193278 | 201298 | 209172 | 21 |
| 40 | 8.150943 | 159776 | 168433 | 176920 | 185245 | 193413 | 201430 | 209302 | 20 |
| 41 | 8.151092 | 159922 | 168576 | 177060 | 185382 | 193548 | 201563 | 209432 | 19 |
| 42 | 8.151241 | 160067 | 168718 | 177200 | 185520 | 193683 | 201695 | 209562 | 18 |
| 43 | 8.151389 | 160213 | 168861 | 177340 | 185657 | 193817 | 201827 | 209692 | 17 |
| 44 | 8.151538 | 160359 | 169004 | 177480 | 185794 | 193952 | 201960 | 209822 | 16 |
| 45 | 8.151686 | 160504 | 169146 | 177620 | 185932 | 194087 | 202092 | 209952 | 15 |
| 46 | 8.151835 | 160650 | 169289 | 177760 | 186069 | 194222 | 202224 | 210082 | 14 |
| 47 | 8.151983 | 160795 | 169432 | 177900 | 186206 | 194356 | 202356 | 210212 | 13 |
| 48 | 8.152131 | 160940 | 169574 | 178039 | 186343 | 194491 | 202488 | 210341 | 12 |
| 49 | 8.152280 | 161086 | 169716 | 178179 | 186480 | 194625 | 202620 | 210471 | 11 |
| 50 | 8.152428 | 161231 | 169859 | 178319 | 186617 | 194760 | 202752 | 210601 | 10 |
| 51 | 8.152576 | 161376 | 170001 | 178458 | 186754 | 194894 | 202884 | 210730 | 9 |
| 52 | 8.152724 | 161521 | 170144 | 178598 | 186891 | 195028 | 203016 | 210860 | 8 |
| 53 | 8.152872 | 161666 | 170286 | 178738 | 187028 | 195163 | 203148 | 210989 | 7 |
| 54 | 8.153020 | 161811 | 170428 | 178877 | 187165 | 195297 | 203280 | 211119 | 6 |
| 55 | 8.153168 | 161956 | 170570 | 179016 | 187301 | 195431 | 203412 | 211248 | 5 |
| 56 | 8.153316 | 162101 | 170712 | 179156 | 187438 | 195566 | 203544 | 211378 | 4 |
| 57 | 8.153464 | 162246 | 170854 | 179295 | 187575 | 195700 | 203675 | 211507 | 3 |
| 58 | 8.153612 | 162391 | 170996 | 179434 | 187712 | 195834 | 203807 | 211636 | 2 |
| 59 | 8.153760 | 162536 | 171138 | 179574 | 187848 | 195968 | 203939 | 211766 | 1 |
| 60 | 8.153907 | 162681 | 171280 | 179713 | 187985 | 196102 | 204070 | 211895 | 0 |
| " | 11' | 10' | 9' | 8' | 7' | 6' | 5' | 4' | " |

| " | 48' | 49' | 50' | 51' | 52' | 53' | 54' | 55' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 144996 | 153952 | 162727 | 171328 | 179763 | 188036 | 196156 | 204126 | 60 |
| 1 | 8.145146 | 154099 | 162872 | 171470 | 179902 | 188173 | 196290 | 204257 | 59 |
| 2 | 8.145297 | 154247 | 163016 | 171612 | 180041 | 188309 | 196424 | 204389 | 58 |
| 3 | 8.145448 | 154395 | 163161 | 171754 | 180180 | 188446 | 196558 | 204521 | 57 |
| 4 | 8.145598 | 154542 | 163306 | 171896 | 180319 | 188582 | 196692 | 204652 | 56 |
| 5 | 8.145749 | 154690 | 163450 | 172037 | 180458 | 188719 | 196825 | 204783 | 55 |
| 6 | 8.145900 | 154837 | 163595 | 172179 | 180597 | 188855 | 196959 | 204915 | 54 |
| 7 | 8.146050 | 154985 | 163739 | 172321 | 180736 | 188991 | 197093 | 205046 | 53 |
| 8 | 8.146200 | 155132 | 163883 | 172462 | 180875 | 189128 | 197227 | 205178 | 52 |
| 9 | 8.146351 | 155279 | 164028 | 172604 | 181014 | 189264 | 197360 | 205309 | 51 |
| 10 | 8.146501 | 155426 | 164172 | 172745 | 181153 | 189400 | 197494 | 205440 | 50 |
| 11 | 8.146651 | 155574 | 164316 | 172887 | 181291 | 189536 | 197628 | 205571 | 49 |
| 12 | 8.146802 | 155721 | 164461 | 173028 | 181430 | 189672 | 197761 | 205703 | 48 |
| 13 | 8.146952 | 155868 | 164605 | 173170 | 181569 | 189808 | 197895 | 205834 | 47 |
| 14 | 8.147102 | 156015 | 164749 | 173311 | 181707 | 189944 | 198028 | 205965 | 46 |
| 15 | 8.147252 | 156162 | 164893 | 173452 | 181846 | 190080 | 198162 | 206096 | 45 |
| 16 | 8.147402 | 156309 | 165037 | 173593 | 181984 | 190216 | 198295 | 206227 | 44 |
| 17 | 8.147552 | 156456 | 165181 | 173735 | 182123 | 190352 | 198429 | 206358 | 43 |
| 18 | 8.147702 | 156603 | 165325 | 173876 | 182261 | 190488 | 198562 | 206489 | 42 |
| 19 | 8.147852 | 156750 | 165469 | 174017 | 182400 | 190624 | 198695 | 206620 | 41 |
| 20 | 8.148001 | 156896 | 165613 | 174158 | 182538 | 190760 | 198829 | 206750 | 40 |
| 21 | 8.148151 | 157043 | 165757 | 174299 | 182676 | 190895 | 198962 | 206881 | 39 |
| 22 | 8.148301 | 157190 | 165900 | 174440 | 182815 | 191031 | 199095 | 207012 | 38 |
| 23 | 8.148451 | 157336 | 166044 | 174581 | 182953 | 191167 | 199228 | 207143 | 37 |
| 24 | 8.148600 | 157483 | 166188 | 174722 | 183091 | 191302 | 199361 | 207273 | 36 |
| 25 | 8.148750 | 157629 | 166331 | 174862 | 183229 | 191438 | 199494 | 207404 | 35 |
| 26 | 8.148899 | 157776 | 166475 | 175003 | 183367 | 191573 | 199627 | 207535 | 34 |
| 27 | 8.149049 | 157922 | 166618 | 175144 | 183505 | 191709 | 199760 | 207665 | 33 |
| 28 | 8.149198 | 158069 | 166762 | 175285 | 183643 | 191844 | 199893 | 207796 | 32 |
| 29 | 8.149347 | 158215 | 166905 | 175425 | 183781 | 191980 | 200026 | 207926 | 31 |
| 30 | 8.149497 | 158361 | 167049 | 175566 | 183919 | 192115 | 200159 | 208057 | 30 |
| 31 | 8.149647 | 158508 | 167192 | 175707 | 184057 | 192250 | 200292 | 208187 | 29 |
| 32 | 8.149797 | 158654 | 167335 | 175847 | 184195 | 192384 | 200425 | 208318 | 28 |
| 33 | 8.149947 | 158801 | 167477 | 175987 | 184333 | 192518 | 200558 | 208448 | 27 |
| 34 | 8.150097 | 158946 | 167622 | 176128 | 184470 | 192656 | 200690 | 208578 | 26 |
| 35 | 8.150247 | 159092 | 167765 | 176268 | 184608 | 192791 | 200823 | 208709 | 25 |
| 36 | 8.150391 | 159238 | 167908 | 176408 | 184746 | 192926 | 200955 | 208839 | 24 |
| 37 | 8.150540 | 159384 | 168051 | 176549 | 184883 | 193061 | 201088 | 208969 | 23 |
| 38 | 8.150689 | 159530 | 168194 | 176689 | 185021 | 193196 | 201220 | 209099 | 22 |
| 39 | 8.150838 | 159676 | 168337 | 176829 | 185158 | 193331 | 201353 | 209229 | 21 |
| 40 | 8.150988 | 159821 | 168480 | 176969 | 185296 | 193466 | 201485 | 209359 | 20 |
| 41 | 8.151135 | 159967 | 168623 | 177109 | 185433 | 193601 | 201618 | 209489 | 19 |
| 42 | 8.151284 | 160113 | 168766 | 177249 | 185571 | 193736 | 201750 | 209619 | 18 |
| 43 | 8.151433 | 160258 | 168908 | 177389 | 185708 | 193871 | 201882 | 209749 | 17 |
| 44 | 8.151581 | 160404 | 169051 | 177529 | 185845 | 194005 | 202015 | 209879 | 16 |
| 45 | 8.151730 | 160550 | 169194 | 177669 | 185983 | 194140 | 202147 | 210009 | 15 |
| 46 | 8.151878 | 160695 | 169336 | 177809 | 186120 | 194275 | 202279 | 210139 | 14 |
| 47 | 8.152027 | 160840 | 169479 | 177949 | 186257 | 194409 | 202411 | 210269 | 13 |
| 48 | 8.152175 | 160986 | 169621 | 178089 | 186394 | 194544 | 202543 | 210398 | 12 |
| 49 | 8.152323 | 161131 | 169764 | 178228 | 186531 | 194678 | 202676 | 210528 | 11 |
| 50 | 8.152472 | 161276 | 169906 | 178368 | 186668 | 194813 | 202808 | 210658 | 10 |
| 51 | 8.152620 | 161422 | 170049 | 178508 | 186805 | 194947 | 202940 | 210788 | 9 |
| 52 | 8.152768 | 161567 | 170191 | 178647 | 186942 | 195082 | 203072 | 210917 | 8 |
| 53 | 8.152916 | 161712 | 170333 | 178787 | 187079 | 195216 | 203203 | 211047 | 7 |
| 54 | 8.153064 | 161857 | 170476 | 178926 | 187216 | 195350 | 203335 | 211176 | 6 |
| 55 | 8.153212 | 162002 | 170618 | 179066 | 187353 | 195485 | 203467 | 211306 | 5 |
| 56 | 8.153360 | 162147 | 170760 | 179205 | 187490 | 195619 | 203599 | 211435 | 4 |
| 57 | 8.153508 | 162292 | 170902 | 179345 | 187626 | 195753 | 203731 | 211565 | 3 |
| 58 | 8.153656 | 162437 | 171044 | 179484 | 187763 | 195887 | 203863 | 211694 | 2 |
| 59 | 8.153804 | 162582 | 171186 | 179623 | 187900 | 196022 | 203994 | 211823 | 1 |
| 60 | 8.153952 | 162727 | 171328 | 179763 | 188036 | 196156 | 204126 | 211953 | 0 |
| " | 11' | 10' | 9' | 8' | 7' | 6' | 5' | 4' | " |

| " | 56' | 57' | 58' | 59' | 0' | 1' | 2' | 3' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.211895 | 219581 | 227134 | 234557 | 241855 | 249033 | 256094 | 263042 | 60 |
| 1 | 8.212024 | 219708 | 227258 | 234679 | 241976 | 249152 | 256211 | 263157 | 59 |
| 2 | 8.212153 | 219835 | 227383 | 234802 | 242097 | 249270 | 256328 | 263272 | 58 |
| 3 | 8.212282 | 219962 | 227508 | 234925 | 242217 | 249389 | 256444 | 263387 | 57 |
| 4 | 8.212412 | 220089 | 227632 | 235047 | 242338 | 249507 | 256561 | 263502 | 56 |
| 5 | 8.212541 | 220215 | 227757 | 235170 | 242458 | 249626 | 256678 | 263616 | 55 |
| 6 | 8.212670 | 220342 | 227882 | 235292 | 242578 | 249744 | 256794 | 263731 | 54 |
| 7 | 8.212799 | 220469 | 228006 | 235415 | 242699 | 249863 | 256911 | 263846 | 53 |
| 8 | 8.212928 | 220596 | 228131 | 235537 | 242819 | 249981 | 257027 | 263960 | 52 |
| 9 | 8.213057 | 220722 | 228255 | 235659 | 242940 | 250100 | 257144 | 264075 | 51 |
| 10 | 8.213185 | 220849 | 228380 | 235782 | 243060 | 250218 | 257260 | 264190 | 50 |
| 11 | 8.213314 | 220976 | 228504 | 235904 | 243180 | 250336 | 257376 | 264304 | 49 |
| 12 | 8.213443 | 221102 | 228628 | 236026 | 243300 | 250455 | 257493 | 264419 | 48 |
| 13 | 8.213572 | 221229 | 228753 | 236149 | 243421 | 250573 | 257609 | 264533 | 47 |
| 14 | 8.213701 | 221355 | 228877 | 236271 | 243541 | 250691 | 257725 | 264648 | 46 |
| 15 | 8.213829 | 221482 | 229001 | 236393 | 243661 | 250809 | 257842 | 264762 | 45 |
| 16 | 8.213958 | 221608 | 229125 | 236515 | 243781 | 250927 | 257958 | 264877 | 44 |
| 17 | 8.214087 | 221734 | 229250 | 236637 | 243901 | 251045 | 258074 | 264991 | 43 |
| 18 | 8.214215 | 221861 | 229374 | 236759 | 244021 | 251164 | 258190 | 265105 | 42 |
| 19 | 8.214344 | 221987 | 229498 | 236881 | 244141 | 251282 | 258307 | 265220 | 41 |
| 20 | 8.214472 | 222113 | 229622 | 237003 | 244261 | 251400 | 258423 | 265334 | 40 |
| 21 | 8.214601 | 222239 | 229746 | 237125 | 244381 | 251518 | 258539 | 265448 | 39 |
| 22 | 8.214729 | 222366 | 229870 | 237247 | 244501 | 251636 | 258655 | 265562 | 38 |
| 23 | 8.214857 | 222492 | 229994 | 237369 | 244621 | 251754 | 258771 | 265677 | 37 |
| 24 | 8.214986 | 222618 | 230118 | 237491 | 244741 | 251871 | 258887 | 265791 | 36 |
| 25 | 8.215114 | 222744 | 230242 | 237613 | 244861 | 251989 | 259003 | 265905 | 35 |
| 26 | 8.215242 | 222870 | 230366 | 237735 | 244980 | 252107 | 259119 | 266019 | 34 |
| 27 | 8.215371 | 222996 | 230490 | 237856 | 245100 | 252225 | 259235 | 266133 | 33 |
| 28 | 8.215499 | 223122 | 230614 | 237978 | 245220 | 252343 | 259351 | 266247 | 32 |
| 29 | 8.215627 | 223248 | 230737 | 238100 | 245339 | 252460 | 259466 | 266361 | 31 |
| 30 | 8.215755 | 223374 | 230861 | 238221 | 245459 | 252578 | 259582 | 266475 | 30 |
| 31 | 8.215883 | 223500 | 230985 | 238343 | 245579 | 252696 | 259698 | 266589 | 29 |
| 32 | 8.216011 | 223625 | 231108 | 238465 | 245698 | 252813 | 259814 | 266703 | 28 |
| 33 | 8.216139 | 223751 | 231232 | 238586 | 245818 | 252931 | 259929 | 266817 | 27 |
| 34 | 8.216267 | 223877 | 231356 | 238708 | 245937 | 253049 | 260045 | 266931 | 26 |
| 35 | 8.216395 | 224003 | 231479 | 238829 | 246057 | 253166 | 260161 | 267045 | 25 |
| 36 | 8.216523 | 224128 | 231603 | 238951 | 246176 | 253284 | 260276 | 267158 | 24 |
| 37 | 8.216651 | 224254 | 231726 | 239072 | 246296 | 253401 | 260392 | 267272 | 23 |
| 38 | 8.216779 | 224380 | 231850 | 239193 | 246415 | 253519 | 260508 | 267386 | 22 |
| 39 | 8.216906 | 224505 | 231973 | 239315 | 246534 | 253636 | 260623 | 267500 | 21 |
| 40 | 8.217034 | 224631 | 232096 | 239436 | 246654 | 253753 | 260739 | 267613 | 20 |
| 41 | 8.217162 | 224756 | 232220 | 239557 | 246773 | 253871 | 260854 | 267727 | 19 |
| 42 | 8.217289 | 224882 | 232343 | 239679 | 246892 | 253988 | 260970 | 267841 | 18 |
| 43 | 8.217417 | 225007 | 232466 | 239800 | 247011 | 254105 | 261085 | 267954 | 17 |
| 44 | 8.217545 | 225132 | 232590 | 239921 | 247131 | 254223 | 261200 | 268068 | 16 |
| 45 | 8.217672 | 225258 | 232713 | 240042 | 247250 | 254340 | 261316 | 268181 | 15 |
| 46 | 8.217800 | 225383 | 232836 | 240163 | 247369 | 254457 | 261431 | 268295 | 14 |
| 47 | 8.217927 | 225508 | 232959 | 240284 | 247488 | 254574 | 261546 | 268408 | 13 |
| 48 | 8.218055 | 225633 | 233082 | 240405 | 247607 | 254691 | 261662 | 268522 | 12 |
| 49 | 8.218182 | 225759 | 233205 | 240526 | 247726 | 254808 | 261777 | 268635 | 11 |
| 50 | 8.218309 | 225884 | 233328 | 240647 | 247845 | 254925 | 261892 | 268749 | 10 |
| 51 | 8.218437 | 226009 | 233451 | 240768 | 247964 | 255042 | 262007 | 268862 | 9 |
| 52 | 8.218564 | 226134 | 233574 | 240889 | 248083 | 255159 | 262122 | 268975 | 8 |
| 53 | 8.218691 | 226259 | 233697 | 241010 | 248202 | 255276 | 262237 | 269089 | 7 |
| 54 | 8.218819 | 226384 | 233820 | 241131 | 248321 | 255393 | 262353 | 269202 | 6 |
| 55 | 8.218946 | 226509 | 233943 | 241252 | 248440 | 255510 | 262468 | 269315 | 5 |
| 56 | 8.219073 | 226634 | 234066 | 241373 | 248558 | 255627 | 262583 | 269428 | 4 |
| 57 | 8.219200 | 226759 | 234189 | 241493 | 248677 | 255744 | 262698 | 269542 | 3 |
| 58 | 8.219327 | 226884 | 234311 | 241614 | 248796 | 255861 | 262813 | 269655 | 2 |
| 59 | 8.219454 | 227009 | 234434 | 241735 | 248914 | 255978 | 262927 | 269768 | 1 |
| 60 | 8.219581 | 227134 | 234557 | 241855 | 249033 | 256094 | 263042 | 269881 | 0 |
| " | 3' | 2' | 1' | 0' | 59' | 58' | 57' | 56' | " |

| " | 56' | 57' | 58' | 59' | 0' | 1' | 2' | 3' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.211953 | 219641 | 227195 | 234621 | 241921 | 249102 | 256165 | 263115 | 60 |
| 1 | 8.212082 | 219768 | 227320 | 234743 | 242042 | 249220 | 256282 | 263230 | 59 |
| 2 | 8.212211 | 219895 | 227445 | 234866 | 242163 | 249339 | 256398 | 263345 | 58 |
| 3 | 8.212340 | 220022 | 227570 | 234989 | 242283 | 249457 | 256515 | 263460 | 57 |
| 4 | 8.212469 | 220149 | 227694 | 235111 | 242404 | 249576 | 256632 | 263575 | 56 |
| 5 | 8.212598 | 220275 | 227819 | 235234 | 242524 | 249695 | 256748 | 263690 | 55 |
| 6 | 8.212728 | 220402 | 227944 | 235356 | 242645 | 249813 | 256865 | 263804 | 54 |
| 7 | 8.212857 | 220529 | 228068 | 235479 | 242765 | 249932 | 256982 | 263919 | 53 |
| 8 | 8.212986 | 220656 | 228193 | 235601 | 242886 | 250050 | 257098 | 264034 | 52 |
| 9 | 8.213115 | 220782 | 228317 | 235724 | 243006 | 250168 | 257215 | 264148 | 51 |
| 10 | 8.213243 | 220909 | 228442 | 235846 | 243126 | 250287 | 257331 | 264263 | 50 |
| 11 | 8.213372 | 221036 | 228566 | 235968 | 243247 | 250405 | 257447 | 264378 | 49 |
| 12 | 8.213501 | 221162 | 228691 | 236091 | 243367 | 250523 | 257564 | 264492 | 48 |
| 13 | 8.213630 | 221289 | 228815 | 236213 | 243487 | 250642 | 257680 | 264607 | 47 |
| 14 | 8.213759 | 221415 | 228939 | 236335 | 243607 | 250760 | 257797 | 264721 | 46 |
| 15 | 8.213887 | 221542 | 229064 | 236457 | 243728 | 250878 | 257913 | 264836 | 45 |
| 16 | 8.214016 | 221668 | 229188 | 236580 | 243848 | 250996 | 258029 | 264950 | 44 |
| 17 | 8.214145 | 221795 | 229312 | 236702 | 243968 | 251115 | 258145 | 265065 | 43 |
| 18 | 8.214273 | 221921 | 229436 | 236824 | 244088 | 251233 | 258262 | 265179 | 42 |
| 19 | 8.214402 | 222047 | 229560 | 236946 | 244208 | 251351 | 258378 | 265293 | 41 |
| 20 | 8.214530 | 222174 | 229685 | 237068 | 244328 | 251469 | 258494 | 265408 | 40 |
| 21 | 8.214659 | 222300 | 229809 | 237190 | 244448 | 251587 | 258610 | 265522 | 39 |
| 22 | 8.214787 | 222426 | 229933 | 237312 | 244568 | 251705 | 258726 | 265636 | 38 |
| 23 | 8.214916 | 222552 | 230057 | 237434 | 244688 | 251823 | 258842 | 265750 | 37 |
| 24 | 8.215044 | 222678 | 230181 | 237556 | 244808 | 251941 | 258958 | 265865 | 36 |
| 25 | 8.215173 | 222804 | 230305 | 237678 | 244928 | 252059 | 259074 | 265979 | 35 |
| 26 | 8.215301 | 222931 | 230429 | 237799 | 245047 | 252176 | 259190 | 266093 | 34 |
| 27 | 8.215429 | 223057 | 230552 | 237921 | 245167 | 252294 | 259306 | 266207 | 33 |
| 28 | 8.215557 | 223183 | 230676 | 238043 | 245287 | 252412 | 259422 | 266321 | 32 |
| 29 | 8.215686 | 223309 | 230800 | 238165 | 245407 | 252530 | 259538 | 266435 | 31 |
| 30 | 8.215814 | 223434 | 230924 | 238286 | 245526 | 252648 | 259654 | 266549 | 30 |
| 31 | 8.215942 | 223560 | 231048 | 238408 | 245646 | 252765 | 259770 | 266663 | 29 |
| 32 | 8.216070 | 223686 | 231171 | 238530 | 245766 | 252883 | 259886 | 266777 | 28 |
| 33 | 8.216198 | 223812 | 231295 | 238651 | 245885 | 253001 | 260001 | 266891 | 27 |
| 34 | 8.216326 | 223938 | 231419 | 238773 | 246005 | 253118 | 260117 | 267005 | 26 |
| 35 | 8.216454 | 224064 | 231542 | 238894 | 246124 | 253236 | 260233 | 267119 | 25 |
| 36 | 8.216582 | 224189 | 231666 | 239016 | 246244 | 253353 | 260348 | 267233 | 24 |
| 37 | 8.216710 | 224315 | 231789 | 239137 | 246363 | 253471 | 260464 | 267347 | 23 |
| 38 | 8.216838 | 224441 | 231913 | 239259 | 246483 | 253588 | 260580 | 267460 | 22 |
| 39 | 8.216965 | 224566 | 232036 | 239380 | 246602 | 253706 | 260695 | 267574 | 21 |
| 40 | 8.217093 | 224692 | 232160 | 239502 | 246721 | 253823 | 260811 | 267688 | 20 |
| 41 | 8.217221 | 224817 | 232283 | 239623 | 246841 | 253941 | 260926 | 267802 | 19 |
| 42 | 8.217349 | 224943 | 232406 | 239744 | 246960 | 254058 | 261042 | 267915 | 18 |
| 43 | 8.217476 | 225068 | 232530 | 239865 | 247079 | 254175 | 261157 | 268029 | 17 |
| 44 | 8.217604 | 225194 | 232653 | 239987 | 247198 | 254293 | 261273 | 268143 | 16 |
| 45 | 8.217731 | 225319 | 232776 | 240108 | 247318 | 254410 | 261388 | 268256 | 15 |
| 46 | 8.217859 | 225444 | 232899 | 240229 | 247437 | 254527 | 261503 | 268370 | 14 |
| 47 | 8.217986 | 225570 | 233023 | 240350 | 247556 | 254644 | 261619 | 268483 | 13 |
| 48 | 8.218114 | 225695 | 233146 | 240471 | 247675 | 254761 | 261734 | 268597 | 12 |
| 49 | 8.218241 | 225820 | 233269 | 240592 | 247794 | 254879 | 261849 | 268710 | 11 |
| 50 | 8.218369 | 225945 | 233392 | 240713 | 247913 | 254996 | 261965 | 268824 | 10 |
| 51 | 8.218496 | 226070 | 233515 | 240834 | 248032 | 255113 | 262080 | 268937 | 9 |
| 52 | 8.218624 | 226196 | 233638 | 240955 | 248151 | 255230 | 262195 | 269050 | 8 |
| 53 | 8.218751 | 226321 | 233761 | 241076 | 248270 | 255347 | 262310 | 269164 | 7 |
| 54 | 8.218878 | 226446 | 233884 | 241197 | 248389 | 255464 | 262425 | 269277 | 6 |
| 55 | 8.219005 | 226571 | 234007 | 241318 | 248508 | 255581 | 262540 | 269390 | 5 |
| 56 | 8.219132 | 226696 | 234130 | 241439 | 248627 | 255698 | 262655 | 269504 | 4 |
| 57 | 8.219260 | 226821 | 234252 | 241559 | 248745 | 255814 | 262770 | 269617 | 3 |
| 58 | 8.219387 | 226946 | 234375 | 241680 | 248864 | 255931 | 262885 | 269730 | 2 |
| 59 | 8.219514 | 227070 | 234498 | 241801 | 248983 | 256048 | 263000 | 269843 | 1 |
| 60 | 8.219641 | 227195 | 234621 | 241921 | 249102 | 256165 | 263115 | 269956 | 0 |
| " | 3' | 2' | 1' | 0' | 59' | 58' | 57' | 56' | " |

| " | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 269881 | 276614 | 283243 | 289773 | 296207 | 302546 | 308794 | 314954 | 60 |
| 1 | 8.269994 | 276725 | 283353 | 289881 | 296313 | 302651 | 308898 | 315056 | 59 |
| 2 | 8.270107 | 276836 | 283463 | 289989 | 296420 | 302756 | 309001 | 315157 | 58 |
| 3 | 8.270220 | 276948 | 283572 | 290097 | 296526 | 302861 | 309104 | 315259 | 57 |
| 4 | 8.270333 | 277059 | 283682 | 290205 | 296632 | 302965 | 309208 | 315361 | 56 |
| 5 | 8.270446 | 277170 | 283791 | 290313 | 296739 | 303070 | 309311 | 315463 | 55 |
| 6 | 8.270559 | 277281 | 283901 | 290421 | 296845 | 303175 | 309414 | 315565 | 54 |
| 7 | 8.270672 | 277392 | 284010 | 290529 | 296951 | 303280 | 309517 | 315667 | 53 |
| 8 | 8.270785 | 277503 | 284120 | 290637 | 297057 | 303384 | 309620 | 315768 | 52 |
| 9 | 8.270898 | 277615 | 284229 | 290745 | 297164 | 303489 | 309724 | 315870 | 51 |
| 10 | 8.271010 | 277726 | 284339 | 290852 | 297270 | 303594 | 309827 | 315972 | 50 |
| 11 | 8.271123 | 277837 | 284448 | 290960 | 297376 | 303698 | 309930 | 316073 | 49 |
| 12 | 8.271236 | 277948 | 284557 | 291068 | 297482 | 303803 | 310033 | 316175 | 48 |
| 13 | 8.271349 | 278059 | 284667 | 291175 | 297588 | 303907 | 310136 | 316277 | 47 |
| 14 | 8.271461 | 278170 | 284776 | 291283 | 297694 | 304012 | 310239 | 316378 | 46 |
| 15 | 8.271574 | 278281 | 284885 | 291391 | 297800 | 304117 | 310342 | 316480 | 45 |
| 16 | 8.271687 | 278391 | 284994 | 291498 | 297906 | 304221 | 310445 | 316581 | 44 |
| 17 | 8.271799 | 278502 | 285104 | 291606 | 298012 | 304325 | 310548 | 316683 | 43 |
| 18 | 8.271912 | 278613 | 285213 | 291713 | 298118 | 304430 | 310651 | 316785 | 42 |
| 19 | 8.272024 | 278724 | 285322 | 291821 | 298224 | 304534 | 310754 | 316886 | 41 |
| 20 | 8.272137 | 278835 | 285431 | 291928 | 298330 | 304639 | 310857 | 316987 | 40 |
| 21 | 8.272249 | 278946 | 285540 | 292036 | 298436 | 304743 | 310960 | 317089 | 39 |
| 22 | 8.272362 | 279056 | 285649 | 292143 | 298542 | 304847 | 311063 | 317190 | 38 |
| 23 | 8.272474 | 279167 | 285758 | 292251 | 298648 | 304952 | 311166 | 317292 | 37 |
| 24 | 8.272587 | 279278 | 285867 | 292358 | 298754 | 305056 | 311268 | 317393 | 36 |
| 25 | 8.272699 | 279388 | 285976 | 292466 | 298859 | 305160 | 311371 | 317494 | 35 |
| 26 | 8.272811 | 279499 | 286085 | 292573 | 298965 | 305265 | 311474 | 317596 | 34 |
| 27 | 8.272924 | 279610 | 286194 | 292680 | 299071 | 305369 | 311577 | 317697 | 33 |
| 28 | 8.273036 | 279720 | 286303 | 292787 | 299177 | 305473 | 311679 | 317798 | 32 |
| 29 | 8.273148 | 279831 | 286412 | 292895 | 299282 | 305577 | 311782 | 317900 | 31 |
| 30 | 8.273260 | 279941 | 286521 | 293002 | 299388 | 305681 | 311885 | 318001 | 30 |
| 31 | 8.273373 | 280052 | 286629 | 293109 | 299494 | 305785 | 311987 | 318102 | 29 |
| 32 | 8.273485 | 280162 | 286738 | 293216 | 299599 | 305890 | 312090 | 318203 | 28 |
| 33 | 8.273597 | 280272 | 286847 | 293324 | 299705 | 305994 | 312193 | 318304 | 27 |
| 34 | 8.273709 | 280383 | 286956 | 293431 | 299810 | 306098 | 312295 | 318406 | 26 |
| 35 | 8.273821 | 280493 | 287064 | 293538 | 299916 | 306202 | 312398 | 318507 | 25 |
| 36 | 8.273933 | 280604 | 287173 | 293645 | 300021 | 306306 | 312500 | 318608 | 24 |
| 37 | 8.274045 | 280714 | 287282 | 293752 | 300127 | 306410 | 312603 | 318709 | 23 |
| 38 | 8.274157 | 280824 | 287390 | 293859 | 300232 | 306514 | 312705 | 318810 | 22 |
| 39 | 8.274269 | 280934 | 287499 | 293966 | 300338 | 306618 | 312808 | 318911 | 21 |
| 40 | 8.274381 | 281045 | 287608 | 294073 | 300443 | 306721 | 312910 | 319012 | 20 |
| 41 | 8.274493 | 281155 | 287716 | 294180 | 300549 | 306825 | 313013 | 319113 | 19 |
| 42 | 8.274605 | 281265 | 287825 | 294287 | 300654 | 306929 | 313115 | 319214 | 18 |
| 43 | 8.274717 | 281375 | 287933 | 294394 | 300759 | 307033 | 313217 | 319315 | 17 |
| 44 | 8.274828 | 281485 | 288042 | 294500 | 300865 | 307137 | 313320 | 319416 | 16 |
| 45 | 8.274940 | 281595 | 288150 | 294607 | 300970 | 307241 | 313422 | 319516 | 15 |
| 46 | 8.275052 | 281705 | 288259 | 294714 | 301075 | 307344 | 313524 | 319617 | 14 |
| 47 | 8.275164 | 281815 | 288367 | 294821 | 301180 | 307448 | 313626 | 319718 | 13 |
| 48 | 8.275275 | 281925 | 288475 | 294928 | 301285 | 307552 | 313729 | 319819 | 12 |
| 49 | 8.275387 | 282035 | 288583 | 295034 | 301391 | 307655 | 313831 | 319920 | 11 |
| 50 | 8.275499 | 282145 | 288692 | 295141 | 301496 | 307759 | 313933 | 320021 | 10 |
| 51 | 8.275610 | 282255 | 288800 | 295248 | 301601 | 307863 | 314035 | 320121 | 9 |
| 52 | 8.275722 | 282365 | 288908 | 295354 | 301706 | 307966 | 314137 | 320222 | 8 |
| 53 | 8.275833 | 282475 | 289017 | 295461 | 301811 | 308070 | 314239 | 320323 | 7 |
| 54 | 8.275945 | 282585 | 289125 | 295568 | 301916 | 308173 | 314342 | 320423 | 6 |
| 55 | 8.276057 | 282695 | 289233 | 295674 | 302021 | 308277 | 314444 | 320524 | 5 |
| 56 | 8.276168 | 282805 | 289341 | 295781 | 302126 | 308380 | 314546 | 320625 | 4 |
| 57 | 8.276279 | 282914 | 289449 | 295887 | 302231 | 308484 | 314648 | 320725 | 3 |
| 58 | 8.276391 | 283024 | 289557 | 295994 | 302336 | 308587 | 314750 | 320826 | 2 |
| 59 | 8.276502 | 283134 | 289665 | 296100 | 302441 | 308691 | 314852 | 320926 | 1 |
| 60 | 8.276614 | 283243 | 289773 | 296207 | 302546 | 308794 | 314954 | 321027 | 0 |
| " | 55' | 54' | 53' | 52' | 51' | 50' | 49' | 48' | " |

| " | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 269956 | 276691 | 283323 | 289856 | 296292 | 302634 | 308884 | 315046 | 60 |
| 1 | 8 270069 | 276803 | 283433 | 289964 | 296398 | 302738 | 308988 | 315148 | 59 |
| 2 | 8 270182 | 276914 | 283543 | 290072 | 296505 | 302843 | 309091 | 315250 | 58 |
| 3 | 8 270296 | 277025 | 283652 | 290180 | 296611 | 302948 | 309194 | 315352 | 57 |
| 4 | 8 270409 | 277137 | 283762 | 290288 | 296717 | 303053 | 309298 | 315454 | 56 |
| 5 | 8 270522 | 277248 | 283872 | 290396 | 296824 | 303158 | 309401 | 315556 | 55 |
| 6 | 8 270634 | 277359 | 283981 | 290504 | 296930 | 303263 | 309504 | 315658 | 54 |
| 7 | 8 270747 | 277470 | 284091 | 290612 | 297036 | 303367 | 309608 | 315759 | 53 |
| 8 | 8 270860 | 277581 | 284200 | 290720 | 297143 | 303472 | 309711 | 315861 | 52 |
| 9 | 8 270973 | 277693 | 284310 | 290827 | 297249 | 303577 | 309814 | 315963 | 51 |
| 10 | 8 271086 | 277804 | 284419 | 290935 | 297355 | 303682 | 309917 | 316065 | 50 |
| 11 | 8 271199 | 277915 | 284528 | 291043 | 297461 | 303786 | 310020 | 316167 | 49 |
| 12 | 8 271312 | 278026 | 284638 | 291151 | 297567 | 303891 | 310124 | 316268 | 48 |
| 13 | 8 271424 | 278137 | 284747 | 291258 | 297674 | 303995 | 310227 | 316370 | 47 |
| 14 | 8 271537 | 278248 | 284856 | 291366 | 297780 | 304100 | 310330 | 316472 | 46 |
| 15 | 8 271650 | 278359 | 284966 | 291474 | 297886 | 304205 | 310433 | 316573 | 45 |
| 16 | 8 271762 | 278470 | 285075 | 291581 | 297992 | 304309 | 310536 | 316675 | 44 |
| 17 | 8 271875 | 278581 | 285184 | 291689 | 298098 | 304414 | 310639 | 316776 | 43 |
| 18 | 8 271988 | 278692 | 285293 | 291797 | 298204 | 304518 | 310742 | 316878 | 42 |
| 19 | 8 272100 | 278802 | 285403 | 291904 | 298310 | 304623 | 310845 | 316979 | 41 |
| 20 | 8 272213 | 278913 | 285512 | 292012 | 298416 | 304727 | 310948 | 317081 | 40 |
| 21 | 8 272325 | 279024 | 285621 | 292119 | 298522 | 304832 | 311051 | 317182 | 39 |
| 22 | 8 272438 | 279135 | 285730 | 292227 | 298628 | 304936 | 311154 | 317284 | 38 |
| 23 | 8 272550 | 279246 | 285839 | 292334 | 298734 | 305040 | 311257 | 317385 | 37 |
| 24 | 8 272663 | 279356 | 285948 | 292442 | 298840 | 305145 | 311359 | 317487 | 36 |
| 25 | 8 272775 | 279467 | 286057 | 292549 | 298945 | 305249 | 311462 | 317588 | 35 |
| 26 | 8 272888 | 279578 | 286166 | 292656 | 299051 | 305353 | 311565 | 317690 | 34 |
| 27 | 8 273000 | 279688 | 286275 | 292764 | 299157 | 305457 | 311668 | 317791 | 33 |
| 28 | 8 273112 | 279799 | 286384 | 292871 | 299263 | 305562 | 311771 | 317892 | 32 |
| 29 | 8 273225 | 279909 | 286493 | 292978 | 299368 | 305666 | 311873 | 317994 | 31 |
| 30 | 8 273337 | 280020 | 286602 | 293086 | 299474 | 305770 | 311976 | 318095 | 30 |
| 31 | 8 273449 | 280130 | 286711 | 293193 | 299580 | 305874 | 312079 | 318196 | 29 |
| 32 | 8 273561 | 280241 | 286820 | 293300 | 299686 | 305978 | 312181 | 318297 | 28 |
| 33 | 8 273673 | 280351 | 286928 | 293407 | 299791 | 306083 | 312284 | 318398 | 27 |
| 34 | 8 273786 | 280462 | 287037 | 293515 | 299897 | 306187 | 312387 | 318500 | 26 |
| 35 | 8 273898 | 280572 | 287146 | 293622 | 300002 | 306291 | 312489 | 318601 | 25 |
| 36 | 8 274010 | 280683 | 287255 | 293729 | 300108 | 306395 | 312592 | 318702 | 24 |
| 37 | 8 274122 | 280793 | 287363 | 293836 | 300213 | 306499 | 312694 | 318803 | 23 |
| 38 | 8 274234 | 280908 | 287472 | 293943 | 300319 | 306603 | 312797 | 318904 | 22 |
| 39 | 8 274346 | 281017 | 287581 | 294050 | 300425 | 306707 | 312899 | 319005 | 21 |
| 40 | 8 274458 | 281127 | 287690 | 294157 | 300531 | 306811 | 312999 | 319106 | 20 |
| 41 | 8 274570 | 281237 | 287800 | 294264 | 300637 | 306915 | 313100 | 319207 | 19 |
| 42 | 8 274682 | 281347 | 287909 | 294371 | 300743 | 307019 | 313200 | 319307 | 18 |
| 43 | 8 274794 | 281455 | 288015 | 294478 | 300846 | 307122 | 313309 | 319409 | 17 |
| 44 | 8 274905 | 281565 | 288123 | 294585 | 300951 | 307226 | 313412 | 319510 | 16 |
| 45 | 8 275017 | 281675 | 288232 | 294692 | 301057 | 307330 | 313514 | 319611 | 15 |
| 46 | 8 275129 | 281785 | 288340 | 294798 | 301162 | 307434 | 313616 | 319712 | 14 |
| 47 | 8 275241 | 281895 | 288449 | 294905 | 301267 | 307537 | 313719 | 319813 | 13 |
| 48 | 8 275353 | 282005 | 288557 | 295012 | 301373 | 307641 | 313821 | 319914 | 12 |
| 49 | 8 275464 | 282115 | 288665 | 295119 | 301478 | 307745 | 313923 | 320015 | 11 |
| 50 | 8 275576 | 282225 | 288774 | 295226 | 301583 | 307849 | 314025 | 320115 | 10 |
| 51 | 8 275688 | 282335 | 288882 | 295332 | 301688 | 307952 | 314127 | 320216 | 9 |
| 52 | 8 275799 | 282445 | 288991 | 295439 | 301793 | 308056 | 314230 | 320317 | 8 |
| 53 | 8 275911 | 282555 | 289099 | 295546 | 301898 | 308160 | 314332 | 320418 | 7 |
| 54 | 8 276022 | 282665 | 289207 | 295652 | 302003 | 308263 | 314434 | 320518 | 6 |
| 55 | 8 276134 | 282775 | 289315 | 295759 | 302109 | 308367 | 314536 | 320619 | 5 |
| 56 | 8 276245 | 282884 | 289423 | 295866 | 302214 | 308470 | 314638 | 320720 | 4 |
| 57 | 8 276357 | 282994 | 289532 | 295972 | 302319 | 308574 | 314740 | 320820 | 3 |
| 58 | 8 276468 | 283104 | 289640 | 296079 | 302424 | 308677 | 314842 | 320921 | 2 |
| 59 | 8 276580 | 283214 | 289748 | 296185 | 302529 | 308781 | 314944 | 321022 | 1 |
| 60 | 8 276691 | 283323 | 289856 | 296292 | 302634 | 308884 | 315046 | 321122 | 0 |
| " | 55' | 54' | 53' | 52' | 51' | 50' | 49' | 48' | " |

| " | 12' | 13' | 14' | 15' | 16' | 17' | 18' | 19' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.321027 | 327016 | 332924 | 338753 | 344504 | 350181 | 355783 | 361315 | 60 |
| 1 | 8.321127 | 327115 | 333022 | 338849 | 344600 | 350275 | 355876 | 361407 | 59 |
| 2 | 8.321228 | 327215 | 333120 | 338946 | 344695 | 350368 | 355969 | 361498 | 58 |
| 3 | 8.321328 | 327314 | 333218 | 339042 | 344790 | 350462 | 356062 | 361590 | 57 |
| 4 | 8.321429 | 327413 | 333315 | 339139 | 344885 | 350556 | 356154 | 361681 | 56 |
| 5 | 8.321529 | 327512 | 333413 | 339235 | 344980 | 350650 | 356247 | 361773 | 55 |
| 6 | 8.321630 | 327611 | 333511 | 339332 | 345075 | 350744 | 356340 | 361864 | 54 |
| 7 | 8.321730 | 327710 | 333608 | 339428 | 345170 | 350838 | 356432 | 361956 | 53 |
| 8 | 8.321830 | 327809 | 333706 | 339524 | 345265 | 350932 | 356525 | 362047 | 52 |
| 9 | 8.321931 | 327908 | 333804 | 339621 | 345361 | 351026 | 356618 | 362139 | 51 |
| 10 | 8.322031 | 328007 | 333901 | 339717 | 345456 | 351119 | 356710 | 362230 | 50 |
| 11 | 8.322131 | 328106 | 333999 | 339813 | 345551 | 351213 | 356803 | 362321 | 49 |
| 12 | 8.322231 | 328204 | 334096 | 339909 | 345646 | 351307 | 356895 | 362413 | 48 |
| 13 | 8.322332 | 328303 | 334194 | 340006 | 345740 | 351401 | 356988 | 362504 | 47 |
| 14 | 8.322432 | 328402 | 334291 | 340102 | 345835 | 351494 | 357080 | 362596 | 46 |
| 15 | 8.322532 | 328501 | 334389 | 340198 | 345930 | 351588 | 357173 | 362687 | 45 |
| 16 | 8.322632 | 328600 | 334486 | 340294 | 346025 | 351682 | 357265 | 362778 | 44 |
| 17 | 8.322732 | 328698 | 334584 | 340390 | 346120 | 351775 | 357358 | 362870 | 43 |
| 18 | 8.322832 | 328797 | 334681 | 340486 | 346215 | 351869 | 357450 | 362961 | 42 |
| 19 | 8.322932 | 328896 | 334779 | 340582 | 346310 | 351963 | 357543 | 363052 | 41 |
| 20 | 8.323033 | 328995 | 334876 | 340679 | 346405 | 352056 | 357635 | 363143 | 40 |
| 21 | 8.323133 | 329093 | 334973 | 340775 | 346499 | 352150 | 357728 | 363234 | 39 |
| 22 | 8.323233 | 329192 | 335071 | 340871 | 346594 | 352243 | 357820 | 363326 | 38 |
| 23 | 8.323333 | 329291 | 335168 | 340967 | 346689 | 352337 | 357912 | 363417 | 37 |
| 24 | 8.323433 | 329389 | 335265 | 341063 | 346784 | 352430 | 358005 | 363508 | 36 |
| 25 | 8.323533 | 329488 | 335362 | 341159 | 346878 | 352524 | 358097 | 363599 | 35 |
| 26 | 8.323632 | 329586 | 335460 | 341255 | 346973 | 352617 | 358189 | 363690 | 34 |
| 27 | 8.323732 | 329685 | 335557 | 341350 | 347068 | 352711 | 358281 | 363781 | 33 |
| 28 | 8.323832 | 329783 | 335654 | 341446 | 347162 | 352804 | 358374 | 363872 | 32 |
| 29 | 8.323932 | 329882 | 335751 | 341542 | 347257 | 352898 | 358466 | 363963 | 31 |
| 30 | 8.324032 | 329980 | 335848 | 341638 | 347352 | 352991 | 358558 | 364055 | 30 |
| 31 | 8.324132 | 330079 | 335946 | 341734 | 347446 | 353084 | 358650 | 364146 | 29 |
| 32 | 8.324232 | 330177 | 336043 | 341830 | 347541 | 353178 | 358742 | 364237 | 28 |
| 33 | 8.324331 | 330276 | 336140 | 341926 | 347635 | 353271 | 358835 | 364328 | 27 |
| 34 | 8.324431 | 330374 | 336237 | 342021 | 347730 | 353364 | 358927 | 364419 | 26 |
| 35 | 8.324531 | 330472 | 336334 | 342117 | 347824 | 353458 | 359020 | 364509 | 25 |
| 36 | 8.324630 | 330571 | 336431 | 342213 | 347919 | 353551 | 359111 | 364600 | 24 |
| 37 | 8.324730 | 330669 | 336528 | 342309 | 348013 | 353644 | 359203 | 364691 | 23 |
| 38 | 8.324830 | 330767 | 336625 | 342404 | 348108 | 353737 | 359295 | 364782 | 22 |
| 39 | 8.324929 | 330866 | 336722 | 342500 | 348202 | 353831 | 359387 | 364873 | 21 |
| 40 | 8.325029 | 330964 | 336819 | 342596 | 348297 | 353924 | 359479 | 364964 | 20 |
| 41 | 8.325129 | 331062 | 336916 | 342691 | 348391 | 354017 | 359571 | 365055 | 19 |
| 42 | 8.325228 | 331160 | 337013 | 342787 | 348485 | 354110 | 359663 | 365146 | 18 |
| 43 | 8.325328 | 331259 | 337109 | 342882 | 348580 | 354203 | 359755 | 365236 | 17 |
| 44 | 8.325427 | 331357 | 337206 | 342978 | 348674 | 354296 | 359847 | 365327 | 16 |
| 45 | 8.325527 | 331455 | 337303 | 343074 | 348768 | 354389 | 359939 | 365418 | 15 |
| 46 | 8.325626 | 331553 | 337400 | 343169 | 348863 | 354483 | 360031 | 365509 | 14 |
| 47 | 8.325726 | 331651 | 337497 | 343265 | 348957 | 354576 | 360122 | 365599 | 13 |
| 48 | 8.325825 | 331749 | 337593 | 343360 | 349051 | 354669 | 360214 | 365690 | 12 |
| 49 | 8.325924 | 331847 | 337690 | 343456 | 349145 | 354762 | 360306 | 365781 | 11 |
| 50 | 8.326024 | 331945 | 337787 | 343551 | 349240 | 354855 | 360398 | 365871 | 10 |
| 51 | 8.326123 | 332043 | 337884 | 343646 | 349334 | 354948 | 360490 | 365962 | 9 |
| 52 | 8.326223 | 332141 | 337980 | 343742 | 349428 | 355041 | 360582 | 366053 | 8 |
| 53 | 8.326322 | 332239 | 338077 | 343837 | 349522 | 355133 | 360673 | 366143 | 7 |
| 54 | 8.326421 | 332337 | 338174 | 343933 | 349616 | 355226 | 360765 | 366234 | 6 |
| 55 | 8.326520 | 332435 | 338270 | 344028 | 349710 | 355319 | 360857 | 366325 | 5 |
| 56 | 8.326620 | 332533 | 338367 | 344123 | 349804 | 355412 | 360948 | 366415 | 4 |
| 57 | 8.326719 | 332631 | 338463 | 344219 | 349898 | 355505 | 361040 | 366505 | 3 |
| 58 | 8.326818 | 332729 | 338560 | 344314 | 349993 | 355598 | 361132 | 366596 | 2 |
| 59 | 8.326917 | 332826 | 338656 | 344409 | 350087 | 355691 | 361223 | 366686 | 1 |
| 60 | 8.327016 | 332924 | 338753 | 344504 | 350181 | 355783 | 361315 | 366777 | 0 |
| " | 47' | 46' | 45' | 44' | 43' | 42' | 41' | 40' | " |

| " | 12' | 13' | 14' | 15' | 16' | 17' | 18' | 19' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.321122 | 327114 | 333025 | 33856 | 344610 | 350289 | 355895 | 361430 | 60 |
| 1 | 8.321223 | 327213 | 333123 | 338953 | 344706 | 350384 | 355988 | 361521 | 59 |
| 2 | 8.321323 | 327313 | 333221 | 339049 | 344801 | 350478 | 356081 | 361613 | 58 |
| 3 | 8.321424 | 327412 | 333318 | 339146 | 344896 | 350571 | 356174 | 361705 | 57 |
| 4 | 8.321524 | 327511 | 333416 | 339242 | 344991 | 350665 | 356266 | 361796 | 56 |
| 5 | 8.321625 | 327610 | 333514 | 339339 | 345087 | 350759 | 356359 | 361888 | 55 |
| 6 | 8.321725 | 327709 | 333612 | 339435 | 345182 | 350853 | 356452 | 361979 | 54 |
| 7 | 8.321825 | 327808 | 333709 | 339532 | 345277 | 350947 | 356545 | 362071 | 53 |
| 8 | 8.321926 | 327907 | 333807 | 339628 | 345372 | 351041 | 356637 | 362162 | 52 |
| 9 | 8.322026 | 328006 | 333905 | 339724 | 345467 | 351135 | 356730 | 362254 | 51 |
| 10 | 8.322127 | 328105 | 334002 | 339821 | 345562 | 351229 | 356823 | 362345 | 50 |
| 11 | 8.322227 | 328204 | 334100 | 339917 | 345657 | 351323 | 356915 | 362437 | 49 |
| 12 | 8.322327 | 328303 | 334197 | 340013 | 345752 | 351416 | 357008 | 362528 | 48 |
| 13 | 8.322427 | 328402 | 334295 | 340110 | 345847 | 351510 | 357100 | 362620 | 47 |
| 14 | 8.322528 | 328501 | 334393 | 340206 | 345942 | 351604 | 357193 | 362711 | 46 |
| 15 | 8.322628 | 328599 | 334490 | 340302 | 346037 | 351698 | 357285 | 362802 | 45 |
| 16 | 8.322728 | 328698 | 334588 | 340398 | 346132 | 351791 | 357378 | 362894 | 44 |
| 17 | 8.322828 | 328797 | 334685 | 340494 | 346227 | 351885 | 357471 | 362985 | 43 |
| 18 | 8.322928 | 328896 | 334783 | 340591 | 346322 | 351979 | 357563 | 363076 | 42 |
| 19 | 8.323029 | 328995 | 334880 | 340687 | 346417 | 352072 | 357655 | 363168 | 41 |
| 20 | 8.323129 | 329094 | 334977 | 340783 | 346512 | 352166 | 357748 | 363259 | 40 |
| 21 | 8.323229 | 329192 | 335075 | 340879 | 346607 | 352260 | 357840 | 363350 | 39 |
| 22 | 8.323329 | 329291 | 335172 | 340975 | 346701 | 352353 | 357933 | 363441 | 38 |
| 23 | 8.323429 | 329390 | 335270 | 341071 | 346796 | 352447 | 358025 | 363533 | 37 |
| 24 | 8.323529 | 329488 | 335367 | 341167 | 346891 | 352540 | 358117 | 363624 | 36 |
| 25 | 8.323629 | 329587 | 335464 | 341263 | 346986 | 352634 | 358210 | 363715 | 35 |
| 26 | 8.323729 | 329685 | 335561 | 341359 | 347080 | 352728 | 358302 | 363806 | 34 |
| 27 | 8.323829 | 329784 | 335659 | 341455 | 347175 | 352821 | 358394 | 363897 | 33 |
| 28 | 8.323929 | 329883 | 335756 | 341551 | 347270 | 352915 | 358487 | 363988 | 32 |
| 29 | 8.324029 | 329981 | 335853 | 341647 | 347365 | 353008 | 358579 | 364080 | 31 |
| 30 | 8.324129 | 330080 | 335950 | 341743 | 347459 | 353101 | 358671 | 364171 | 30 |
| 31 | 8.324228 | 330178 | 336048 | 341839 | 347554 | 353195 | 358763 | 364262 | 29 |
| 32 | 8.324328 | 330277 | 336145 | 341935 | 347649 | 353288 | 358856 | 364353 | 28 |
| 33 | 8.324428 | 330375 | 336242 | 342031 | 347743 | 353382 | 358948 | 364444 | 27 |
| 34 | 8.324528 | 330473 | 336339 | 342126 | 347838 | 353475 | 359040 | 364535 | 26 |
| 35 | 8.324628 | 330572 | 336436 | 342222 | 347932 | 353568 | 359132 | 364626 | 25 |
| 36 | 8.324727 | 330670 | 336533 | 342318 | 348027 | 353662 | 359224 | 364717 | 24 |
| 37 | 8.324827 | 330769 | 336630 | 342414 | 348121 | 353755 | 359316 | 364808 | 23 |
| 38 | 8.324927 | 330867 | 336727 | 342509 | 348216 | 353848 | 359409 | 364899 | 22 |
| 39 | 8.325026 | 330965 | 336824 | 342605 | 348310 | 353941 | 359501 | 364990 | 21 |
| 40 | 8.325126 | 331064 | 336921 | 342701 | 348405 | 354035 | 359593 | 365081 | 20 |
| 41 | 8.325226 | 331162 | 337018 | 342797 | 348499 | 354128 | 359685 | 365171 | 19 |
| 42 | 8.325325 | 331260 | 337115 | 342892 | 348594 | 354221 | 359777 | 365262 | 18 |
| 43 | 8.325425 | 331358 | 337212 | 342988 | 348688 | 354314 | 359869 | 365353 | 17 |
| 44 | 8.325524 | 331457 | 337309 | 343083 | 348782 | 354407 | 359961 | 365444 | 16 |
| 45 | 8.325624 | 331555 | 337406 | 343179 | 348877 | 354501 | 360053 | 365535 | 15 |
| 46 | 8.325723 | 331653 | 337503 | 343275 | 348971 | 354594 | 360145 | 365626 | 14 |
| 47 | 8.325823 | 331751 | 337599 | 343370 | 349065 | 354687 | 360237 | 365716 | 13 |
| 48 | 8.325922 | 331849 | 337696 | 343466 | 349160 | 354780 | 360328 | 365807 | 12 |
| 49 | 8.326022 | 331947 | 337793 | 343561 | 349254 | 354873 | 360420 | 365898 | 11 |
| 50 | 8.326121 | 332045 | 337890 | 343657 | 349348 | 354966 | 360512 | 365988 | 10 |
| 51 | 8.326221 | 332143 | 337987 | 343752 | 349442 | 355059 | 360604 | 366079 | 9 |
| 52 | 8.326320 | 332241 | 338083 | 343848 | 349537 | 355152 | 360696 | 366170 | 8 |
| 53 | 8.326419 | 332339 | 338180 | 343943 | 349631 | 355245 | 360788 | 366260 | 7 |
| 54 | 8.326519 | 332437 | 338277 | 344038 | 349725 | 355338 | 360879 | 366351 | 6 |
| 55 | 8.326618 | 332535 | 338373 | 344134 | 349819 | 355431 | 360971 | 366442 | 5 |
| 56 | 8.326717 | 332633 | 338470 | 344229 | 349913 | 355524 | 361063 | 366532 | 4 |
| 57 | 8.326817 | 332731 | 338567 | 344325 | 350007 | 355617 | 361155 | 366623 | 3 |
| 58 | 8.326916 | 332829 | 338663 | 344420 | 350101 | 355710 | 361246 | 366713 | 2 |
| 59 | 8.327015 | 332927 | 338760 | 344515 | 350195 | 355802 | 361338 | 366804 | 1 |
| 60 | 8.327114 | 333025 | 338856 | 344610 | 350289 | 355895 | 361430 | 366895 | 0 |
| " | 47' | 46' | 45' | 44' | 43' | 42' | 41' | 40' | " |

| " | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.366777 | 372171 | 377499 | 382762 | 387962 | 393101 | 398179 | 403199 | 60 |
| 1 | 8.366867 | 372260 | 377587 | 382849 | 388048 | 393186 | 398263 | 403282 | 59 |
| 2 | 8.366958 | 372350 | 377675 | 382936 | 388134 | 393271 | 398348 | 403365 | 58 |
| 3 | 8.367048 | 372439 | 377763 | 383024 | 388221 | 393356 | 398432 | 403448 | 57 |
| 4 | 8.367139 | 372528 | 377852 | 383111 | 388307 | 393441 | 398516 | 403532 | 56 |
| 5 | 8.367229 | 372617 | 377940 | 383198 | 388393 | 393526 | 398600 | 403615 | 55 |
| 6 | 8.367319 | 372707 | 378028 | 383285 | 388479 | 393611 | 398684 | 403698 | 54 |
| 7 | 8.367410 | 372796 | 378116 | 383372 | 388565 | 393696 | 398768 | 403781 | 53 |
| 8 | 8.367500 | 372885 | 378204 | 383459 | 388651 | 393781 | 398852 | 403864 | 52 |
| 9 | 8.367590 | 372974 | 378292 | 383546 | 388737 | 393866 | 398936 | 403947 | 51 |
| 10 | 8.367681 | 373063 | 378380 | 383633 | 388823 | 393951 | 399020 | 404030 | 50 |
| 11 | 8.367771 | 373153 | 378469 | 383720 | 388909 | 394036 | 399104 | 404113 | 49 |
| 12 | 8.367861 | 373242 | 378557 | 383807 | 388995 | 394121 | 399188 | 404196 | 48 |
| 13 | 8.367951 | 373331 | 378645 | 383894 | 389081 | 394206 | 399272 | 404279 | 47 |
| 14 | 8.368042 | 373420 | 378733 | 383981 | 389167 | 394291 | 399356 | 404362 | 46 |
| 15 | 8.368132 | 373509 | 378821 | 384068 | 389253 | 394376 | 399440 | 404445 | 45 |
| 16 | 8.368222 | 373598 | 378909 | 384155 | 389338 | 394461 | 399524 | 404528 | 44 |
| 17 | 8.368312 | 373687 | 378997 | 384242 | 389424 | 394546 | 399607 | 404611 | 43 |
| 18 | 8.368402 | 373776 | 379084 | 384329 | 389510 | 394631 | 399691 | 404694 | 42 |
| 19 | 8.368492 | 373865 | 379172 | 384415 | 389596 | 394715 | 399775 | 404777 | 41 |
| 20 | 8.368582 | 373954 | 379260 | 384502 | 389682 | 394800 | 399859 | 404859 | 40 |
| 21 | 8.368672 | 374043 | 379348 | 384589 | 389768 | 394885 | 399943 | 404942 | 39 |
| 22 | 8.368763 | 374132 | 379436 | 384676 | 389853 | 394970 | 400027 | 405025 | 38 |
| 23 | 8.368853 | 374221 | 379524 | 384763 | 389939 | 395055 | 400110 | 405108 | 37 |
| 24 | 8.368944 | 374310 | 379612 | 384850 | 390025 | 395139 | 400194 | 405191 | 36 |
| 25 | 8.369033 | 374399 | 379700 | 384936 | 390111 | 395224 | 400278 | 405274 | 35 |
| 26 | 8.369123 | 374488 | 379787 | 385023 | 390196 | 395309 | 400362 | 405356 | 34 |
| 27 | 8.369213 | 374577 | 379875 | 385110 | 390282 | 395393 | 400445 | 405439 | 33 |
| 28 | 8.369302 | 374665 | 379963 | 385197 | 390368 | 395478 | 400529 | 405522 | 32 |
| 29 | 8.369392 | 374754 | 380051 | 385283 | 390453 | 395563 | 400613 | 405605 | 31 |
| 30 | 8.369482 | 374843 | 380138 | 385370 | 390539 | 395647 | 400696 | 405687 | 30 |
| 31 | 8.369572 | 374932 | 380226 | 385457 | 390625 | 395732 | 400780 | 405770 | 29 |
| 32 | 8.369662 | 375021 | 380314 | 385543 | 390710 | 395817 | 400864 | 405853 | 28 |
| 33 | 8.369752 | 375109 | 380401 | 385630 | 390796 | 395901 | 400947 | 405935 | 27 |
| 34 | 8.369842 | 375198 | 380489 | 385716 | 390882 | 395986 | 401031 | 406018 | 26 |
| 35 | 8.369932 | 375287 | 380577 | 385803 | 390967 | 396070 | 401115 | 406101 | 25 |
| 36 | 8.370021 | 375375 | 380664 | 385890 | 391053 | 396155 | 401198 | 406183 | 24 |
| 37 | 8.370111 | 375464 | 380752 | 385976 | 391138 | 396240 | 401282 | 406266 | 23 |
| 38 | 8.370201 | 375553 | 380840 | 386063 | 391224 | 396324 | 401365 | 406348 | 22 |
| 39 | 8.370291 | 375641 | 380927 | 386149 | 391309 | 396409 | 401449 | 406431 | 21 |
| 40 | 8.370380 | 375730 | 381015 | 386236 | 391395 | 396493 | 401532 | 406514 | 20 |
| 41 | 8.370470 | 375819 | 381102 | 386322 | 391480 | 396578 | 401616 | 406596 | 19 |
| 42 | 8.370560 | 375907 | 381190 | 386409 | 391566 | 396662 | 401699 | 406679 | 18 |
| 43 | 8.370649 | 375996 | 381277 | 386495 | 391651 | 396746 | 401783 | 406761 | 17 |
| 44 | 8.370739 | 376084 | 381365 | 386582 | 391736 | 396831 | 401866 | 406844 | 16 |
| 45 | 8.370829 | 376173 | 381452 | 386668 | 391822 | 396915 | 401950 | 406926 | 15 |
| 46 | 8.370918 | 376261 | 381540 | 386754 | 391907 | 397000 | 402033 | 407009 | 14 |
| 47 | 8.371008 | 376350 | 381627 | 386841 | 391993 | 397084 | 402116 | 407091 | 13 |
| 48 | 8.371097 | 376438 | 381714 | 386927 | 392078 | 397168 | 402200 | 407173 | 12 |
| 49 | 8.371187 | 376527 | 381802 | 387013 | 392163 | 397253 | 402283 | 407256 | 11 |
| 50 | 8.371277 | 376615 | 381889 | 387100 | 392249 | 397337 | 402366 | 407338 | 10 |
| 51 | 8.371366 | 376704 | 381977 | 387186 | 392334 | 397421 | 402450 | 407421 | 9 |
| 52 | 8.371456 | 376792 | 382064 | 387272 | 392419 | 397506 | 402533 | 407503 | 8 |
| 53 | 8.371545 | 376881 | 382151 | 387359 | 392504 | 397590 | 402616 | 407585 | 7 |
| 54 | 8.371635 | 376969 | 382239 | 387445 | 392590 | 397674 | 402700 | 407668 | 6 |
| 55 | 8.371724 | 377057 | 382326 | 387531 | 392675 | 397758 | 402783 | 407750 | 5 |
| 56 | 8.371813 | 377146 | 382413 | 387617 | 392760 | 397843 | 402866 | 407832 | 4 |
| 57 | 8.371903 | 377234 | 382500 | 387704 | 392845 | 397927 | 402949 | 407915 | 3 |
| 58 | 8.371992 | 377322 | 382588 | 387790 | 392930 | 398011 | 403033 | 407997 | 2 |
| 59 | 8.372082 | 377411 | 382675 | 387876 | 393016 | 398095 | 403116 | 408079 | 1 |
| 60 | 8.372171 | 377499 | 382762 | 387962 | 393101 | 398179 | 403199 | 408161 | 0 |
| " | 39' | 38' | 37' | 36' | 35' | 34' | 33' | 32' | " |

| " | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.366895 | 372292 | 377622 | 382889 | 388092 | 393234 | 398315 | 403338 | 60 |
| 1 | 8.366895 | 372381 | 377711 | 382976 | 388178 | 393319 | 398399 | 403421 | 59 |
| 2 | 8.367075 | 372470 | 377799 | 383063 | 388264 | 393404 | 398484 | 403505 | 58 |
| 3 | 8.367166 | 372560 | 377887 | 383150 | 388350 | 393489 | 398568 | 403588 | 57 |
| 4 | 8.367256 | 372649 | 377975 | 383237 | 388437 | 393574 | 398652 | 403671 | 56 |
| 5 | 8.367347 | 372738 | 378064 | 383325 | 388523 | 393559 | 398736 | 403754 | 55 |
| 6 | 8.367437 | 372828 | 378152 | 383412 | 388609 | 393744 | 398820 | 403837 | 54 |
| 7 | 8.367528 | 372917 | 378240 | 383499 | 388695 | 393829 | 398904 | 403920 | 53 |
| 8 | 8.367618 | 373006 | 378328 | 383586 | 388781 | 393915 | 398988 | 404003 | 52 |
| 9 | 8.367708 | 373095 | 378416 | 383673 | 388867 | 394000 | 399072 | 404087 | 51 |
| 10 | 8.367799 | 373185 | 378504 | 383760 | 388953 | 394085 | 399156 | 404170 | 50 |
| 11 | 8.367889 | 373274 | 378593 | 383847 | 389039 | 394170 | 399240 | 404253 | 49 |
| 12 | 8.367979 | 373363 | 378681 | 383934 | 389125 | 394255 | 399324 | 404336 | 48 |
| 13 | 8.368070 | 373452 | 378769 | 384021 | 389211 | 394340 | 399408 | 404419 | 47 |
| 14 | 8.368160 | 373541 | 378857 | 384108 | 389297 | 394425 | 399492 | 404502 | 46 |
| 15 | 8.368250 | 373630 | 378945 | 384195 | 389383 | 394510 | 399576 | 404585 | 45 |
| 16 | 8.368340 | 373719 | 379033 | 384282 | 389469 | 394594 | 399660 | 404668 | 44 |
| 17 | 8.368430 | 373809 | 379121 | 384369 | 389555 | 394679 | 399744 | 404751 | 43 |
| 18 | 8.368521 | 373898 | 379209 | 384456 | 389641 | 394764 | 399828 | 404834 | 42 |
| 19 | 8.368611 | 373987 | 379297 | 384543 | 389727 | 394849 | 399912 | 404917 | 41 |
| 20 | 8.368701 | 374076 | 379385 | 384630 | 389813 | 394934 | 399996 | 405000 | 40 |
| 21 | 8.368791 | 374165 | 379473 | 384717 | 389898 | 395019 | 400080 | 405083 | 39 |
| 22 | 8.368881 | 374254 | 379561 | 384804 | 389984 | 395104 | 400164 | 405166 | 38 |
| 23 | 8.368971 | 374343 | 379649 | 384891 | 390070 | 395189 | 400247 | 405248 | 37 |
| 24 | 8.369061 | 374432 | 379737 | 384977 | 390156 | 395273 | 400331 | 405331 | 36 |
| 25 | 8.369151 | 374521 | 379824 | 385064 | 390242 | 395358 | 400415 | 405414 | 35 |
| 26 | 8.369241 | 374610 | 379912 | 385151 | 390327 | 395443 | 400499 | 405497 | 34 |
| 27 | 8.369331 | 374698 | 380000 | 385238 | 390413 | 395528 | 400583 | 405580 | 33 |
| 28 | 8.369421 | 374787 | 380088 | 385325 | 390499 | 395612 | 400666 | 405662 | 32 |
| 29 | 8.369511 | 374876 | 380176 | 385411 | 390585 | 395697 | 400750 | 405745 | 31 |
| 30 | 8.369601 | 374965 | 380263 | 385498 | 390670 | 395782 | 400834 | 405828 | 30 |
| 31 | 8.369691 | 375054 | 380351 | 385585 | 390756 | 395866 | 400918 | 405911 | 29 |
| 32 | 8.369781 | 375143 | 380439 | 385671 | 390842 | 395951 | 401001 | 405993 | 28 |
| 33 | 8.369871 | 375232 | 380527 | 385758 | 390927 | 396036 | 401085 | 406076 | 27 |
| 34 | 8.369961 | 375320 | 380614 | 385845 | 391013 | 396120 | 401169 | 406159 | 26 |
| 35 | 8.370051 | 375409 | 380702 | 385931 | 391099 | 396205 | 401252 | 406242 | 25 |
| 36 | 8.370141 | 375498 | 380790 | 386018 | 391184 | 396290 | 401336 | 406324 | 24 |
| 37 | 8.370231 | 375587 | 380877 | 386105 | 391270 | 396374 | 401419 | 406407 | 23 |
| 38 | 8.370320 | 375675 | 380965 | 386191 | 391355 | 396459 | 401503 | 406490 | 22 |
| 39 | 8.370410 | 375764 | 381053 | 386278 | 391441 | 396543 | 401587 | 406572 | 21 |
| 40 | 8.370500 | 375853 | 381141 | 386364 | 391526 | 396628 | 401671 | 406655 | 20 |
| 41 | 8.370590 | 375941 | 381228 | 386451 | 391612 | 396712 | 401755 | 406738 | 19 |
| 42 | 8.370679 | 376030 | 381315 | 386537 | 391697 | 396797 | 401839 | 406820 | 18 |
| 43 | 8.370769 | 376119 | 381403 | 386624 | 391783 | 396881 | 401921 | 406903 | 17 |
| 44 | 8.370859 | 376207 | 381490 | 386710 | 391868 | 396966 | 402004 | 406985 | 16 |
| 45 | 8.370949 | 376296 | 381578 | 386797 | 391954 | 397050 | 402088 | 407068 | 15 |
| 46 | 8.371038 | 376384 | 381666 | 386883 | 392039 | 397135 | 402171 | 407150 | 14 |
| 47 | 8.371128 | 376473 | 381753 | 386970 | 392125 | 397219 | 402255 | 407233 | 13 |
| 48 | 8.371217 | 376561 | 381840 | 387056 | 392210 | 397304 | 402338 | 407315 | 12 |
| 49 | 8.371307 | 376650 | 381928 | 387143 | 392295 | 397388 | 402422 | 407398 | 11 |
| 50 | 8.371397 | 376738 | 382015 | 387229 | 392381 | 397472 | 402505 | 407480 | 10 |
| 51 | 8.371486 | 376827 | 382103 | 387315 | 392465 | 397557 | 402588 | 407562 | 9 |
| 52 | 8.371576 | 376915 | 382190 | 387402 | 392551 | 397641 | 402672 | 407645 | 8 |
| 53 | 8.371665 | 377004 | 382277 | 387488 | 392637 | 397725 | 402755 | 407727 | 7 |
| 54 | 8.371755 | 377092 | 382365 | 387574 | 392722 | 397810 | 402838 | 407810 | 6 |
| 55 | 8.371844 | 377181 | 382452 | 387661 | 392807 | 397894 | 402922 | 407892 | 5 |
| 56 | 8.371934 | 377269 | 382540 | 387747 | 392893 | 397978 | 403005 | 407974 | 4 |
| 57 | 8.372023 | 377357 | 382627 | 387833 | 392978 | 398063 | 403088 | 408057 | 3 |
| 58 | 8.372113 | 377446 | 382714 | 387919 | 393063 | 398147 | 403172 | 408139 | 2 |
| 59 | 8.372202 | 377534 | 382801 | 388006 | 393148 | 398231 | 403255 | 408221 | 1 |
| 60 | 8.372292 | 377622 | 382889 | 388092 | 393234 | 398315 | 403338 | 408304 | 0 |
| " | 39' | 38' | 37' | 36' | 35' | 34' | 33' | 32' | " |

| " | 28' | 29' | 30' | 31' | 32' | 33' | 34' | 35' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.408161 | 413068 | 417919 | 422717 | 427462 | 432156 | 436800 | 441394 | 60 |
| 1 | 8.408244 | 413149 | 417999 | 422796 | 427541 | 432234 | 436877 | 441471 | 59 |
| 2 | 8.408326 | 413230 | 418080 | 422876 | 427619 | 432312 | 436954 | 441547 | 58 |
| 3 | 8.408408 | 413311 | 418160 | 422955 | 427698 | 432389 | 437031 | 441623 | 57 |
| 4 | 8.408490 | 413393 | 418241 | 423035 | 427777 | 432467 | 437108 | 441699 | 56 |
| 5 | 8.408572 | 413474 | 418321 | 423114 | 427855 | 432545 | 437185 | 441775 | 55 |
| 6 | 8.408654 | 413555 | 418401 | 423194 | 427934 | 432623 | 437262 | 441851 | 54 |
| 7 | 8.408737 | 413636 | 418481 | 423273 | 428012 | 432700 | 437338 | 441927 | 53 |
| 8 | 8.408819 | 413718 | 418562 | 423353 | 428091 | 432778 | 437415 | 442003 | 52 |
| 9 | 8.408901 | 413799 | 418642 | 423432 | 428169 | 432856 | 437492 | 442079 | 51 |
| 10 | 8.408983 | 413880 | 418722 | 423511 | 428248 | 432934 | 437569 | 442156 | 50 |
| 11 | 8.409065 | 413961 | 418803 | 423591 | 428326 | 433011 | 437646 | 442232 | 49 |
| 12 | 8.409147 | 414042 | 418883 | 423670 | 428405 | 433089 | 437723 | 442308 | 48 |
| 13 | 8.409229 | 414123 | 418963 | 423749 | 428483 | 433166 | 437799 | 442384 | 47 |
| 14 | 8.409311 | 414204 | 419043 | 423829 | 428562 | 433244 | 437876 | 442460 | 46 |
| 15 | 8.409393 | 414286 | 419123 | 423908 | 428640 | 433322 | 437953 | 442536 | 45 |
| 16 | 8.409475 | 414367 | 419204 | 423987 | 428719 | 433399 | 438030 | 442611 | 44 |
| 17 | 8.409557 | 414448 | 419284 | 424067 | 428797 | 433477 | 438107 | 442687 | 43 |
| 18 | 8.409639 | 414529 | 419364 | 424146 | 428876 | 433554 | 438183 | 442763 | 42 |
| 19 | 8.409721 | 414610 | 419444 | 424225 | 428954 | 433632 | 438260 | 442839 | 41 |
| 20 | 8.409803 | 414691 | 419524 | 424304 | 429032 | 433710 | 438337 | 442915 | 40 |
| 21 | 8.409885 | 414772 | 419604 | 424384 | 429111 | 433787 | 438413 | 442991 | 39 |
| 22 | 8.409967 | 414853 | 419684 | 424463 | 429189 | 433865 | 438490 | 443067 | 38 |
| 23 | 8.410049 | 414934 | 419764 | 424542 | 429267 | 433942 | 438567 | 443143 | 37 |
| 24 | 8.410131 | 415015 | 419844 | 424621 | 429346 | 434020 | 438644 | 443219 | 36 |
| 25 | 8.410212 | 415096 | 419925 | 424700 | 429424 | 434097 | 438720 | 443295 | 35 |
| 26 | 8.410294 | 415177 | 420005 | 424779 | 429502 | 434174 | 438797 | 443370 | 34 |
| 27 | 8.410376 | 415257 | 420085 | 424859 | 429581 | 434252 | 438873 | 443446 | 33 |
| 28 | 8.410458 | 415338 | 420165 | 424938 | 429659 | 434329 | 438950 | 443522 | 32 |
| 29 | 8.410540 | 415419 | 420245 | 425017 | 429737 | 434407 | 439027 | 443598 | 31 |
| 30 | 8.410621 | 415500 | 420325 | 425096 | 429815 | 434484 | 439103 | 443674 | 30 |
| 31 | 8.410703 | 415581 | 420404 | 425175 | 429894 | 434561 | 439180 | 443750 | 29 |
| 32 | 8.410785 | 415662 | 420484 | 425254 | 429972 | 434639 | 439257 | 443825 | 28 |
| 33 | 8.410867 | 415743 | 420564 | 425333 | 430050 | 434716 | 439333 | 443901 | 27 |
| 34 | 8.410948 | 415823 | 420644 | 425412 | 430128 | 434794 | 439409 | 443977 | 26 |
| 35 | 8.411030 | 415904 | 420724 | 425491 | 430206 | 434871 | 439486 | 444052 | 25 |
| 36 | 8.411112 | 415985 | 420804 | 425570 | 430285 | 434948 | 439562 | 444128 | 24 |
| 37 | 8.411193 | 416066 | 420884 | 425649 | 430363 | 435026 | 439639 | 444204 | 23 |
| 38 | 8.411275 | 416146 | 420964 | 425728 | 430441 | 435103 | 439715 | 444279 | 22 |
| 39 | 8.411357 | 416227 | 421044 | 425807 | 430519 | 435180 | 439792 | 444355 | 21 |
| 40 | 8.411438 | 416308 | 421123 | 425886 | 430597 | 435257 | 439868 | 444431 | 20 |
| 41 | 8.411520 | 416389 | 421203 | 425965 | 430675 | 435335 | 439945 | 444506 | 19 |
| 42 | 8.411602 | 416469 | 421283 | 426044 | 430753 | 435412 | 440021 | 444582 | 18 |
| 43 | 8.411683 | 416550 | 421363 | 426123 | 430831 | 435489 | 440098 | 444658 | 17 |
| 44 | 8.411765 | 416631 | 421443 | 426202 | 430909 | 435566 | 440174 | 444733 | 16 |
| 45 | 8.411846 | 416711 | 421522 | 426281 | 430987 | 435644 | 440250 | 444809 | 15 |
| 46 | 8.411928 | 416792 | 421602 | 426359 | 431065 | 435721 | 440327 | 444884 | 14 |
| 47 | 8.412009 | 416872 | 421682 | 426438 | 431143 | 435798 | 440403 | 444960 | 13 |
| 48 | 8.412091 | 416953 | 421761 | 426517 | 431221 | 435875 | 440479 | 445035 | 12 |
| 49 | 8.412172 | 417034 | 421841 | 426596 | 431299 | 435952 | 440556 | 445111 | 11 |
| 50 | 8.412254 | 417115 | 421921 | 426675 | 431377 | 436029 | 440632 | 445187 | 10 |
| 51 | 8.412335 | 417195 | 422000 | 426754 | 431455 | 436105 | 440708 | 445262 | 9 |
| 52 | 8.412417 | 417275 | 422080 | 426832 | 431533 | 436184 | 440785 | 445337 | 8 |
| 53 | 8.412498 | 417356 | 422160 | 426911 | 431611 | 436261 | 440861 | 445413 | 7 |
| 54 | 8.412579 | 417436 | 422239 | 426990 | 431689 | 436338 | 440937 | 445488 | 6 |
| 55 | 8.412661 | 417517 | 422319 | 427069 | 431767 | 436415 | 441013 | 445564 | 5 |
| 56 | 8.412742 | 417597 | 422399 | 427147 | 431845 | 436492 | 441090 | 445639 | 4 |
| 57 | 8.412824 | 417678 | 422478 | 427226 | 431923 | 436569 | 441166 | 445715 | 3 |
| 58 | 8.412905 | 417758 | 422558 | 427305 | 432000 | 436646 | 441242 | 445790 | 2 |
| 59 | 8.412986 | 417839 | 422637 | 427383 | 432078 | 436723 | 441318 | 445866 | 1 |
| 60 | 8.413068 | 417919 | 422717 | 427462 | 432156 | 436800 | 441394 | 445941 | 0 |
| " | 31' | 30' | 29' | 28' | 27' | 26' | 25' | 24' | " |

| " | 28' | 29' | 30' | 31' | 32' | 33' | 34' | 35' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.408304 | 413213 | 418068 | 422869 | 427618 | 432315 | 436962 | 441560 | 60 |
| 1 | 8.408386 | 413295 | 418148 | 422949 | 427696 | 432393 | 437039 | 441637 | 59 |
| 2 | 8.408468 | 413376 | 418229 | 423028 | 427775 | 432471 | 437116 | 441713 | 58 |
| 3 | 8.408550 | 413457 | 418309 | 423108 | 427854 | 432549 | 437193 | 441789 | 57 |
| 4 | 8.408633 | 413539 | 418390 | 423187 | 427932 | 432626 | 437270 | 441865 | 56 |
| 5 | 8.408715 | 413620 | 418470 | 423267 | 428011 | 432704 | 437347 | 441941 | 55 |
| 6 | 8.408797 | 413701 | 418550 | 423346 | 428090 | 432782 | 437424 | 442017 | 54 |
| 7 | 8.408879 | 413782 | 418631 | 423426 | 428168 | 432860 | 437501 | 442094 | 53 |
| 8 | 8.408961 | 413864 | 418711 | 423505 | 428247 | 432938 | 437578 | 442170 | 52 |
| 9 | 8.409044 | 413945 | 418791 | 423585 | 428325 | 433015 | 437655 | 442246 | 51 |
| 10 | 8.409126 | 414026 | 418872 | 423664 | 428404 | 433093 | 437732 | 442322 | 50 |
| 11 | 8.409208 | 414107 | 418952 | 423743 | 428483 | 433171 | 437809 | 442398 | 49 |
| 12 | 8.409290 | 414188 | 419032 | 423823 | 428561 | 433248 | 437886 | 442474 | 48 |
| 13 | 8.409372 | 414270 | 419113 | 423902 | 428640 | 433326 | 437963 | 442550 | 47 |
| 14 | 8.409454 | 414351 | 419193 | 423982 | 428718 | 433404 | 438039 | 442626 | 46 |
| 15 | 8.409536 | 414432 | 419273 | 424061 | 428797 | 433481 | 438116 | 442702 | 45 |
| 16 | 8.409618 | 414513 | 419353 | 424140 | 428875 | 433559 | 438193 | 442778 | 44 |
| 17 | 8.409700 | 414594 | 419434 | 424220 | 428954 | 433637 | 438270 | 442854 | 43 |
| 18 | 8.409782 | 414675 | 419514 | 424299 | 429032 | 433714 | 438347 | 442930 | 42 |
| 19 | 8.409864 | 414756 | 419594 | 424378 | 429111 | 433792 | 438424 | 443006 | 41 |
| 20 | 8.409946 | 414837 | 419674 | 424458 | 429189 | 433870 | 438500 | 443082 | 40 |
| 21 | 8.410028 | 414918 | 419754 | 424537 | 429268 | 433947 | 438577 | 443158 | 39 |
| 22 | 8.410110 | 415000 | 419834 | 424616 | 429346 | 434025 | 438654 | 443234 | 38 |
| 23 | 8.410192 | 415081 | 419915 | 424695 | 429424 | 434102 | 438731 | 443310 | 37 |
| 24 | 8.410274 | 415162 | 419995 | 424775 | 429503 | 434180 | 438807 | 443386 | 36 |
| 25 | 8.410356 | 415243 | 420075 | 424854 | 429581 | 434257 | 438884 | 443462 | 35 |
| 26 | 8.410438 | 415324 | 420155 | 424933 | 429659 | 434335 | 438961 | 443538 | 34 |
| 27 | 8.410520 | 415404 | 420235 | 425012 | 429738 | 434412 | 439037 | 443614 | 33 |
| 28 | 8.410602 | 415485 | 420315 | 425091 | 429816 | 434490 | 439114 | 443690 | 32 |
| 29 | 8.410684 | 415566 | 420395 | 425171 | 429894 | 434567 | 439191 | 443765 | 31 |
| 30 | 8.410765 | 415647 | 420475 | 425250 | 429973 | 434645 | 439267 | 443841 | 30 |
| 31 | 8.410847 | 415728 | 420555 | 425329 | 430051 | 434722 | 439344 | 443917 | 29 |
| 32 | 8.410929 | 415809 | 420635 | 425408 | 430129 | 434800 | 439421 | 443993 | 28 |
| 33 | 8.411011 | 415890 | 420715 | 425487 | 430207 | 434877 | 439497 | 444069 | 27 |
| 34 | 8.411093 | 415971 | 420795 | 425566 | 430286 | 434955 | 439574 | 444144 | 26 |
| 35 | 8.411174 | 416052 | 420875 | 425645 | 430364 | 435032 | 439650 | 444220 | 25 |
| 36 | 8.411256 | 416132 | 420955 | 425724 | 430442 | 435109 | 439727 | 444296 | 24 |
| 37 | 8.411338 | 416213 | 421035 | 425803 | 430520 | 435187 | 439803 | 444372 | 23 |
| 38 | 8.411419 | 416294 | 421115 | 425882 | 430599 | 435264 | 439880 | 444447 | 22 |
| 39 | 8.411501 | 416375 | 421195 | 425961 | 430677 | 435341 | 439956 | 444523 | 21 |
| 40 | 8.411583 | 416456 | 421274 | 426041 | 430755 | 435419 | 440033 | 444599 | 20 |
| 41 | 8.411664 | 416536 | 421354 | 426121 | 430833 | 435496 | 440110 | 444675 | 19 |
| 42 | 8.411746 | 416617 | 421434 | 426198 | 430911 | 435573 | 440186 | 444750 | 18 |
| 43 | 8.411828 | 416698 | 421514 | 426277 | 430989 | 435651 | 440262 | 444826 | 17 |
| 44 | 8.411909 | 416779 | 421594 | 426356 | 431067 | 435728 | 440339 | 444902 | 16 |
| 45 | 8.411991 | 416859 | 421674 | 426435 | 431145 | 435805 | 440415 | 444977 | 15 |
| 46 | 8.412073 | 416940 | 421753 | 426514 | 431224 | 435882 | 440492 | 445053 | 14 |
| 47 | 8.412154 | 417021 | 421833 | 426593 | 431302 | 435960 | 440568 | 445128 | 13 |
| 48 | 8.412236 | 417101 | 421913 | 426672 | 431380 | 436037 | 440645 | 445204 | 12 |
| 49 | 8.412317 | 417182 | 421993 | 426751 | 431458 | 436114 | 440721 | 445280 | 11 |
| 50 | 8.412399 | 417263 | 422072 | 426830 | 431536 | 436191 | 440797 | 445355 | 10 |
| 51 | 8.412480 | 417343 | 422152 | 426909 | 431614 | 436268 | 440874 | 445431 | 9 |
| 52 | 8.412562 | 417424 | 422232 | 426987 | 431692 | 436345 | 440950 | 445506 | 8 |
| 53 | 8.412643 | 417504 | 422312 | 427066 | 431770 | 436423 | 441026 | 445582 | 7 |
| 54 | 8.412725 | 417585 | 422391 | 427145 | 431848 | 436500 | 441103 | 445657 | 6 |
| 55 | 8.412806 | 417665 | 422471 | 427224 | 431926 | 436577 | 441179 | 445733 | 5 |
| 56 | 8.412888 | 417746 | 422551 | 427303 | 432003 | 436654 | 441255 | 445808 | 4 |
| 57 | 8.412969 | 417826 | 422630 | 427381 | 432081 | 436731 | 441332 | 445884 | 3 |
| 58 | 8.413050 | 417907 | 422710 | 427460 | 432159 | 436808 | 441408 | 445959 | 2 |
| 59 | 8.413132 | 417987 | 422789 | 427539 | 432237 | 436885 | 441484 | 446035 | 1 |
| 60 | 8.413213 | 418068 | 422869 | 427618 | 432315 | 436962 | 441560 | 446110 | 0 |
| " | 31' | 30' | 29' | 28' | 27' | 26' | 25' | 24' | " |

| " | 36' | 37' | 38' | 39' | 40' | 41' | 42' | 43' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.445941 | 450440 | 454893 | 459301 | 463665 | 467985 | 472263 | 476498 | 60 |
| 1 | 8.446016 | 450515 | 454967 | 459374 | 463737 | 468057 | 472334 | 476569 | 59 |
| 2 | 8.446092 | 450589 | 455041 | 459447 | 463810 | 468128 | 472404 | 476639 | 58 |
| 3 | 8.446167 | 450664 | 455115 | 459521 | 463882 | 468200 | 472475 | 476709 | 57 |
| 4 | 8.446242 | 450739 | 455189 | 459594 | 463954 | 468271 | 472546 | 476779 | 56 |
| 5 | 8.446318 | 450813 | 455262 | 459667 | 464027 | 468343 | 472617 | 476849 | 55 |
| 6 | 8.446393 | 450888 | 455336 | 459740 | 464099 | 468415 | 472688 | 476920 | 54 |
| 7 | 8.446468 | 450962 | 455410 | 459813 | 464171 | 468486 | 472759 | 476990 | 53 |
| 8 | 8.446544 | 451037 | 455484 | 459886 | 464243 | 468558 | 472830 | 477060 | 52 |
| 9 | 8.446619 | 451111 | 455557 | 459959 | 464316 | 468629 | 472901 | 477130 | 51 |
| 10 | 8.446694 | 451186 | 455631 | 460032 | 464388 | 468701 | 472971 | 477200 | 50 |
| 11 | 8.446769 | 451260 | 455705 | 460105 | 464460 | 468772 | 473042 | 477270 | 49 |
| 12 | 8.446845 | 451335 | 455779 | 460178 | 464532 | 468844 | 473113 | 477341 | 48 |
| 13 | 8.446920 | 451409 | 455852 | 460250 | 464605 | 468915 | 473184 | 477411 | 47 |
| 14 | 8.446995 | 451483 | 455926 | 460323 | 464677 | 468987 | 473255 | 477481 | 46 |
| 15 | 8.447070 | 451558 | 456000 | 460396 | 464749 | 469058 | 473325 | 477551 | 45 |
| 16 | 8.447145 | 451632 | 456073 | 460469 | 464821 | 469130 | 473396 | 477621 | 44 |
| 17 | 8.447220 | 451707 | 456147 | 460542 | 464893 | 469201 | 473467 | 477691 | 43 |
| 18 | 8.447296 | 451781 | 456220 | 460615 | 464965 | 469273 | 473538 | 477761 | 42 |
| 19 | 8.447371 | 451855 | 456294 | 460688 | 465038 | 469344 | 473608 | 477831 | 41 |
| 20 | 8.447446 | 451930 | 456368 | 460761 | 465110 | 469416 | 473679 | 477901 | 40 |
| 21 | 8.447521 | 452004 | 456441 | 460834 | 465182 | 469487 | 473750 | 477971 | 39 |
| 22 | 8.447596 | 452078 | 456515 | 460906 | 465254 | 469558 | 473820 | 478041 | 38 |
| 23 | 8.447671 | 452153 | 456588 | 460979 | 465326 | 469630 | 473891 | 478111 | 37 |
| 24 | 8.447746 | 452227 | 456662 | 461052 | 465398 | 469701 | 473962 | 478181 | 36 |
| 25 | 8.447821 | 452301 | 456735 | 461125 | 465470 | 469772 | 474033 | 478251 | 35 |
| 26 | 8.447896 | 452376 | 456809 | 461198 | 465542 | 469844 | 474103 | 478321 | 34 |
| 27 | 8.447971 | 452450 | 456882 | 461270 | 465614 | 469915 | 474174 | 478391 | 33 |
| 28 | 8.448046 | 452524 | 456956 | 461343 | 465686 | 469986 | 474244 | 478461 | 32 |
| 29 | 8.448121 | 452598 | 457029 | 461416 | 465758 | 470058 | 474315 | 478531 | 31 |
| 30 | 8.448196 | 452673 | 457103 | 461489 | 465830 | 470129 | 474386 | 478601 | 30 |
| 31 | 8.448271 | 452747 | 457176 | 461561 | 465902 | 470200 | 474456 | 478671 | 29 |
| 32 | 8.448346 | 452821 | 457250 | 461634 | 465974 | 470272 | 474527 | 478741 | 28 |
| 33 | 8.448421 | 452895 | 457323 | 461707 | 466046 | 470343 | 474597 | 478811 | 27 |
| 34 | 8.448496 | 452969 | 457397 | 461779 | 466118 | 470414 | 474668 | 478880 | 26 |
| 35 | 8.448571 | 453043 | 457470 | 461852 | 466190 | 470485 | 474738 | 478950 | 25 |
| 36 | 8.448646 | 453118 | 457543 | 461925 | 466262 | 470557 | 474809 | 479020 | 24 |
| 37 | 8.448721 | 453192 | 457617 | 461997 | 466334 | 470628 | 474880 | 479090 | 23 |
| 38 | 8.448796 | 453266 | 457690 | 462070 | 466406 | 470699 | 474950 | 479160 | 22 |
| 39 | 8.448871 | 453340 | 457764 | 462143 | 466478 | 470770 | 475021 | 479230 | 21 |
| 40 | 8.448946 | 453414 | 457837 | 462215 | 466550 | 470841 | 475091 | 479299 | 20 |
| 41 | 8.449020 | 453488 | 457910 | 462288 | 466622 | 470913 | 475161 | 479369 | 19 |
| 42 | 8.449095 | 453562 | 457984 | 462360 | 466693 | 470984 | 475232 | 479439 | 18 |
| 43 | 8.449170 | 453636 | 458057 | 462433 | 466765 | 471055 | 475302 | 479509 | 17 |
| 44 | 8.449245 | 453710 | 458130 | 462506 | 466837 | 471126 | 475373 | 479579 | 16 |
| 45 | 8.449320 | 453784 | 458203 | 462578 | 466909 | 471197 | 475443 | 479648 | 15 |
| 46 | 8.449395 | 453858 | 458277 | 462651 | 466981 | 471268 | 475514 | 479718 | 14 |
| 47 | 8.449469 | 453932 | 458350 | 462723 | 467053 | 471339 | 475584 | 479788 | 13 |
| 48 | 8.449544 | 454006 | 458423 | 462796 | 467124 | 471410 | 475655 | 479857 | 12 |
| 49 | 8.449619 | 454080 | 458497 | 462868 | 467196 | 471481 | 475725 | 479927 | 11 |
| 50 | 8.449694 | 454154 | 458570 | 462941 | 467268 | 471553 | 475795 | 479997 | 10 |
| 51 | 8.449768 | 454228 | 458643 | 463013 | 467340 | 471624 | 475866 | 480067 | 9 |
| 52 | 8.449843 | 454302 | 458716 | 463086 | 467411 | 471695 | 475936 | 480136 | 8 |
| 53 | 8.449918 | 454376 | 458789 | 463158 | 467483 | 471766 | 476006 | 480206 | 7 |
| 54 | 8.449992 | 454450 | 458863 | 463230 | 467555 | 471837 | 476077 | 480276 | 6 |
| 55 | 8.450067 | 454524 | 458936 | 463303 | 467627 | 471908 | 476147 | 480345 | 5 |
| 56 | 8.450142 | 454598 | 459009 | 463375 | 467698 | 471979 | 476217 | 480415 | 4 |
| 57 | 8.450216 | 454672 | 459082 | 463448 | 467770 | 472050 | 476288 | 480484 | 3 |
| 58 | 8.450291 | 454746 | 459155 | 463520 | 467842 | 472121 | 476358 | 480554 | 2 |
| 59 | 8.450366 | 454820 | 459228 | 463593 | 467913 | 472192 | 476428 | 480624 | 1 |
| 60 | 8.450440 | 454893 | 459301 | 463665 | 467985 | 472263 | 476498 | 480693 | 0 |
| " | 23' | 22' | 21' | 20' | 19' | 18' | 17' | 16' | " |

| " | 36' | 37' | 38' | 39' | 40' | 41' | 42' | 43' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.446110 | 450613 | 455070 | 459481 | 463849 | 468172 | 472454 | 476693 | 60 |
| 1 | 8.446186 | 450688 | 455144 | 459555 | 463921 | 468244 | 472525 | 476764 | 59 |
| 2 | 8.446261 | 450762 | 455218 | 459628 | 463993 | 468316 | 472596 | 476834 | 58 |
| 3 | 8.446337 | 450837 | 455292 | 459701 | 464066 | 468388 | 472667 | 476904 | 57 |
| 4 | 8.446412 | 450912 | 455365 | 459774 | 464138 | 468459 | 472738 | 476974 | 56 |
| 5 | 8.446487 | 450986 | 455439 | 459847 | 464211 | 468531 | 472809 | 477045 | 55 |
| 6 | 8.446563 | 451061 | 455513 | 459920 | 464283 | 468603 | 472880 | 477115 | 54 |
| 7 | 8.446638 | 451135 | 455587 | 459993 | 464355 | 468674 | 472951 | 477185 | 53 |
| 8 | 8.446713 | 451210 | 455661 | 460066 | 464428 | 468746 | 473022 | 477255 | 52 |
| 9 | 8.446789 | 451285 | 455734 | 460139 | 464500 | 468817 | 473092 | 477326 | 51 |
| 10 | 8.446864 | 451359 | 455808 | 460212 | 464572 | 468889 | 473163 | 477396 | 50 |
| 11 | 8.446939 | 451434 | 455882 | 460285 | 464645 | 468961 | 473234 | 477466 | 49 |
| 12 | 8.447015 | 451508 | 455956 | 460358 | 464717 | 469032 | 473305 | 477536 | 48 |
| 13 | 8.447090 | 451583 | 456029 | 460431 | 464789 | 469104 | 473376 | 477606 | 47 |
| 14 | 8.447165 | 451657 | 456103 | 460504 | 464861 | 469175 | 473447 | 477677 | 46 |
| 15 | 8.447240 | 451732 | 456177 | 460577 | 464934 | 469247 | 473518 | 477747 | 45 |
| 16 | 8.447316 | 451806 | 456251 | 460650 | 465006 | 469318 | 473588 | 477817 | 44 |
| 17 | 8.447391 | 451881 | 456324 | 460723 | 465078 | 469390 | 473659 | 477887 | 43 |
| 18 | 8.447466 | 451955 | 456398 | 460796 | 465150 | 469461 | 473730 | 477957 | 42 |
| 19 | 8.447541 | 452029 | 456472 | 460869 | 465223 | 469533 | 473801 | 478027 | 41 |
| 20 | 8.447616 | 452104 | 456545 | 460942 | 465295 | 469604 | 473872 | 478097 | 40 |
| 21 | 8.447692 | 452178 | 456619 | 461015 | 465367 | 469676 | 473942 | 478167 | 39 |
| 22 | 8.447767 | 452253 | 456693 | 461088 | 465439 | 469747 | 474013 | 478238 | 38 |
| 23 | 8.447842 | 452327 | 456766 | 461161 | 465511 | 469819 | 474084 | 478308 | 37 |
| 24 | 8.447917 | 452401 | 456840 | 461234 | 465583 | 469890 | 474155 | 478378 | 36 |
| 25 | 8.447992 | 452476 | 456913 | 461306 | 465655 | 469961 | 474225 | 478448 | 35 |
| 26 | 8.448067 | 452550 | 456987 | 461379 | 465728 | 470033 | 474296 | 478518 | 34 |
| 27 | 8.448142 | 452624 | 457061 | 461452 | 465800 | 470104 | 474367 | 478588 | 33 |
| 28 | 8.448217 | 452699 | 457134 | 461525 | 465872 | 470176 | 474437 | 478658 | 32 |
| 29 | 8.448292 | 452773 | 457208 | 461598 | 465944 | 470247 | 474508 | 478728 | 31 |
| 30 | 8.448368 | 452847 | 457281 | 461670 | 466016 | 470318 | 474579 | 478798 | 30 |
| 31 | 8.448443 | 452921 | 457355 | 461743 | 466088 | 470390 | 474649 | 478868 | 29 |
| 32 | 8.448518 | 452996 | 457428 | 461816 | 466160 | 470461 | 474720 | 478938 | 28 |
| 33 | 8.448593 | 453070 | 457502 | 461889 | 466232 | 470532 | 474791 | 479008 | 27 |
| 34 | 8.448668 | 453144 | 457575 | 461962 | 466304 | 470604 | 474861 | 479078 | 26 |
| 35 | 8.448743 | 453218 | 457649 | 462034 | 466376 | 470675 | 474932 | 479147 | 25 |
| 36 | 8.448818 | 453292 | 457722 | 462107 | 466448 | 470746 | 475002 | 479217 | 24 |
| 37 | 8.448893 | 453367 | 457796 | 462180 | 466520 | 470818 | 475073 | 479287 | 23 |
| 38 | 8.448967 | 453441 | 457869 | 462252 | 466592 | 470889 | 475144 | 479357 | 22 |
| 39 | 8.449042 | 453515 | 457942 | 462325 | 466664 | 470960 | 475214 | 479427 | 21 |
| 40 | 8.449117 | 453589 | 458016 | 462398 | 466736 | 471031 | 475285 | 479497 | 20 |
| 41 | 8.449192 | 453663 | 458089 | 462470 | 466808 | 471103 | 475355 | 479567 | 19 |
| 42 | 8.449267 | 453738 | 458163 | 462543 | 466880 | 471174 | 475426 | 479637 | 18 |
| 43 | 8.449342 | 453812 | 458236 | 462616 | 466952 | 471245 | 475496 | 479706 | 17 |
| 44 | 8.449417 | 453886 | 458309 | 462688 | 467024 | 471316 | 475567 | 479776 | 16 |
| 45 | 8.449492 | 453960 | 458383 | 462761 | 467096 | 471387 | 475637 | 479846 | 15 |
| 46 | 8.449567 | 454034 | 458456 | 462834 | 467167 | 471459 | 475708 | 479916 | 14 |
| 47 | 8.449641 | 454108 | 458529 | 462906 | 467239 | 471530 | 475778 | 479986 | 13 |
| 48 | 8.449716 | 454182 | 458603 | 462979 | 467311 | 471601 | 475849 | 480055 | 12 |
| 49 | 8.449791 | 454256 | 458676 | 463051 | 467383 | 471672 | 475919 | 480125 | 11 |
| 50 | 8.449866 | 454330 | 458749 | 463124 | 467455 | 471743 | 475990 | 480195 | 10 |
| 51 | 8.449941 | 454404 | 458823 | 463196 | 467527 | 471814 | 476060 | 480265 | 9 |
| 52 | 8.450015 | 454478 | 458896 | 463269 | 467598 | 471885 | 476130 | 480334 | 8 |
| 53 | 8.450090 | 454552 | 458969 | 463341 | 467670 | 471956 | 476201 | 480404 | 7 |
| 54 | 8.450165 | 454626 | 459042 | 463414 | 467742 | 472028 | 476271 | 480474 | 6 |
| 55 | 8.450240 | 454700 | 459115 | 463486 | 467814 | 472099 | 476342 | 480544 | 5 |
| 56 | 8.450314 | 454774 | 459189 | 463559 | 467886 | 472170 | 476412 | 480613 | 4 |
| 57 | 8.450389 | 454848 | 459262 | 463631 | 467957 | 472241 | 476482 | 480683 | 3 |
| 58 | 8.450464 | 454922 | 459335 | 463704 | 468029 | 472312 | 476553 | 480753 | 2 |
| 59 | 8.450538 | 454996 | 459408 | 463776 | 468101 | 472383 | 476623 | 480822 | 1 |
| 60 | 8.450613 | 455070 | 459481 | 463849 | 468172 | 472454 | 476693 | 480892 | 0 |
| " | 23' | 22' | 21' | 20' | 19' | 18' | 17' | 16' | " |

| " | 44' | 45' | 46' | 47' | 48' | 49' | 50' | 51' | " | |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|---|
| 0 | 8.480693 | 484848 | 488963 | 493040 | 497078 | 501080 | 505045 | 508974 | 60 | |
| 1 | 8.480763 | 484917 | 489031 | 493107 | 497145 | 501146 | 505110 | 509039 | 59 | |
| 2 | 8.480832 | 484986 | 489100 | 493175 | 497212 | 501213 | 505176 | 509104 | 58 | |
| 3 | 8.480902 | 485055 | 489168 | 493243 | 497279 | 501279 | 505242 | 509169 | 57 | |
| 4 | 8.480971 | 485123 | 489236 | 493310 | 497346 | 501345 | 505308 | 509234 | 56 | |
| 5 | 8.481041 | 485192 | 489304 | 493378 | 497413 | 501412 | 505373 | 509299 | 55 | |
| 6 | 8.481110 | 485261 | 489373 | 493445 | 497480 | 501478 | 505439 | 509365 | 54 | |
| 7 | 8.481180 | 485330 | 489441 | 493513 | 497547 | 501544 | 505505 | 509430 | 53 | |
| 8 | 8.481249 | 485399 | 489509 | 493580 | 497614 | 501611 | 505571 | 509495 | 52 | |
| 9 | 8.481319 | 485468 | 489577 | 493648 | 497681 | 501677 | 505636 | 509560 | 51 | |
| 10 | 8.481388 | 485536 | 489645 | 493715 | 497748 | 501743 | 505702 | 509625 | 50 | |
| 11 | 8.481458 | 485605 | 489713 | 493783 | 497815 | 501809 | 505768 | 509690 | 49 | |
| 12 | 8.481527 | 485674 | 489782 | 493851 | 497882 | 501876 | 505833 | 509755 | 48 | |
| 13 | 8.481597 | 485743 | 489850 | 493918 | 497949 | 501942 | 505899 | 509820 | 47 | |
| 14 | 8.481666 | 485812 | 489918 | 493985 | 498015 | 502008 | 505965 | 509885 | 46 | |
| 15 | 8.481736 | 485880 | 489986 | 494053 | 498082 | 502074 | 506030 | 509950 | 45 | |
| 16 | 8.481805 | 485949 | 490054 | 494120 | 498149 | 502141 | 506096 | 510015 | 44 | |
| 17 | 8.481874 | 486018 | 490122 | 494188 | 498216 | 502207 | 506162 | 510080 | 43 | |
| 18 | 8.481944 | 486087 | 490190 | 494255 | 498283 | 502273 | 506227 | 510145 | 42 | |
| 19 | 8.482013 | 486155 | 490258 | 494323 | 498350 | 502339 | 506293 | 510210 | 41 | |
| 20 | 8.482083 | 486224 | 490326 | 494390 | 498416 | 502405 | 506358 | 510275 | 40 | |
| 21 | 8.482152 | 486293 | 490394 | 494458 | 498483 | 502472 | 506424 | 510340 | 39 | |
| 22 | 8.482221 | 486361 | 490462 | 494525 | 498550 | 502538 | 506489 | 510405 | 38 | |
| 23 | 8.482291 | 486430 | 490530 | 494592 | 498617 | 502604 | 506555 | 510470 | 37 | |
| 24 | 8.482360 | 486499 | 490598 | 494660 | 498683 | 502670 | 506621 | 510535 | 36 | |
| 25 | 8.482429 | 486567 | 490666 | 494727 | 498750 | 502736 | 506686 | 510600 | 35 | |
| 26 | 8.482498 | 486636 | 490734 | 494794 | 498817 | 502802 | 506752 | 510665 | 34 | |
| 27 | 8.482568 | 486705 | 490802 | 494862 | 498884 | 502869 | 506817 | 510730 | 33 | |
| 28 | 8.482637 | 486773 | 490870 | 494929 | 498950 | 502935 | 506883 | 510795 | 32 | |
| 29 | 8.482706 | 486842 | 490938 | 494996 | 499017 | 503001 | 506948 | 510860 | 31 | |
| 30 | 8.482776 | 486910 | 491006 | 495064 | 499084 | 503067 | 507014 | 510925 | 30 | |
| 31 | 8.482845 | 486979 | 491074 | 495131 | 499150 | 503133 | 507079 | 510990 | 29 | |
| 32 | 8.482914 | 487048 | 491142 | 495198 | 499217 | 503199 | 507145 | 511055 | 28 | |
| 33 | 8.482983 | 487116 | 491210 | 495266 | 499284 | 503265 | 507210 | 511119 | 27 | |
| 34 | 8.483052 | 487185 | 491278 | 495333 | 499350 | 503331 | 507275 | 511184 | 26 | |
| 35 | 8.483122 | 487253 | 491346 | 495400 | 499417 | 503397 | 507341 | 511249 | 25 | |
| 36 | 8.483191 | 487322 | 491414 | 495467 | 499484 | 503463 | 507406 | 511314 | 24 | |
| 37 | 8.483260 | 487390 | 491482 | 495535 | 499550 | 503529 | 507472 | 511379 | 23 | |
| 38 | 8.483329 | 487459 | 491549 | 495602 | 499617 | 503595 | 507537 | 511444 | 22 | |
| 39 | 8.483398 | 487527 | 491617 | 495669 | 499684 | 503661 | 507603 | 511509 | 21 | |
| 40 | 8.483467 | 487596 | 491685 | 495736 | 499750 | 503727 | 507669 | 511573 | 20 | |
| 41 | 8.483536 | 487665 | 491753 | 495803 | 499817 | 503793 | 507735 | 511638 | 19 | |
| 42 | 8.483606 | 487733 | 491821 | 495871 | 499883 | 503859 | 507799 | 511703 | 18 | |
| 43 | 8.483675 | 487801 | 491889 | 495938 | 499950 | 503925 | 507864 | 511768 | 17 | |
| 44 | 8.483744 | 487870 | 491956 | 496005 | 500016 | 503991 | 507929 | 511832 | 16 | |
| 45 | 8.483813 | 487938 | 492024 | 496072 | 500083 | 504057 | 507995 | 511897 | 15 | |
| 46 | 8.483882 | 488006 | 492092 | 496139 | 500149 | 504123 | 508060 | 511962 | 14 | |
| 47 | 8.483951 | 488075 | 492160 | 496207 | 500216 | 504189 | 508125 | 512027 | 13 | |
| 48 | 8.484020 | 488143 | 492228 | 496274 | 500283 | 504255 | 508190 | 512091 | 12 | |
| 49 | 8.484089 | 488212 | 492295 | 496341 | 500349 | 504321 | 508255 | 512156 | 11 | |
| 50 | 8.484158 | 488280 | 492363 | 496408 | 500416 | 504386 | 508320 | 512221 | 10 | |
| 51 | 8.484227 | 488348 | 492431 | 496475 | 500482 | 504452 | 508386 | 512285 | 9 | |
| 52 | 8.484296 | 488417 | 492498 | 496542 | 500548 | 504518 | 508451 | 512350 | 8 | |
| 53 | 8.484365 | 488485 | 492566 | 496609 | 500615 | 504584 | 508516 | 512415 | 7 | |
| 54 | 8.484434 | 488553 | 492634 | 496676 | 500681 | 504650 | 508582 | 512480 | 6 | |
| 55 | 8.484503 | 488622 | 492702 | 496743 | 500748 | 504716 | 508647 | 512544 | 5 | |
| 56 | 8.484572 | 488690 | 492769 | 496810 | 500814 | 504781 | 508713 | 512609 | 4 | |
| 57 | 8.484641 | 488758 | 492837 | 496877 | 500881 | 504847 | 508778 | 512673 | 3 | |
| 58 | 8.484710 | 488827 | 492904 | 496944 | 500947 | 504913 | 508843 | 512738 | 2 | |
| 59 | 8.484779 | 488895 | 492972 | 497011 | 501013 | 504979 | 508908 | 512803 | 1 | |
| 60 | 8.484848 | 488963 | 493040 | 497078 | 501080 | 505045 | 508974 | 512867 | 0 | |
| " | 15' | 14' | 13' | 12' | 11' | 10' | 1' | 9' | 8' | " |

| " | 44' | 45' | 46' | 47' | 48' | 49' | 50' | 51' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.480892 | 485030 | 489170 | 493250 | 497293 | 501298 | 505267 | 509200 | 60 |
| 1 | 8.480962 | 485119 | 489238 | 493318 | 497360 | 501365 | 505333 | 509265 | 59 |
| 2 | 8.481031 | 485188 | 489306 | 493386 | 497427 | 501431 | 505399 | 509331 | 58 |
| 3 | 8.481101 | 485257 | 489375 | 493453 | 497494 | 501497 | 505465 | 509396 | 57 |
| 4 | 8.481170 | 485326 | 489443 | 493521 | 497561 | 501564 | 505530 | 509461 | 56 |
| 5 | 8.481240 | 485395 | 489511 | 493588 | 497628 | 501630 | 505596 | 509526 | 55 |
| 6 | 8.481310 | 485464 | 489579 | 493656 | 497695 | 501697 | 505662 | 509591 | 54 |
| 7 | 8.481379 | 485533 | 489648 | 493724 | 497762 | 501763 | 505728 | 509657 | 53 |
| 8 | 8.481449 | 485602 | 489716 | 493791 | 497829 | 501829 | 505794 | 509722 | 52 |
| 9 | 8.481518 | 485671 | 489784 | 493859 | 497896 | 501896 | 505859 | 509787 | 51 |
| 10 | 8.481588 | 485740 | 489852 | 493927 | 497963 | 501962 | 505925 | 509852 | 50 |
| 11 | 8.481657 | 485809 | 489921 | 493994 | 498030 | 502029 | 505991 | 509917 | 49 |
| 12 | 8.481727 | 485877 | 489989 | 494062 | 498097 | 502095 | 506057 | 509982 | 48 |
| 13 | 8.481796 | 485946 | 490057 | 494129 | 498164 | 502161 | 506122 | 510048 | 47 |
| 14 | 8.481866 | 486015 | 490125 | 494197 | 498231 | 502227 | 506188 | 510113 | 46 |
| 15 | 8.481935 | 486084 | 490193 | 494264 | 498298 | 502294 | 506254 | 510178 | 45 |
| 16 | 8.482005 | 486153 | 490262 | 494332 | 498364 | 502360 | 506319 | 510243 | 44 |
| 17 | 8.482074 | 486222 | 490330 | 494399 | 498431 | 502426 | 506385 | 510308 | 43 |
| 18 | 8.482144 | 486290 | 490398 | 494467 | 498498 | 502493 | 506451 | 510373 | 42 |
| 19 | 8.482213 | 486359 | 490466 | 494534 | 498565 | 502559 | 506516 | 510438 | 41 |
| 20 | 8.482283 | 486428 | 490534 | 494602 | 498632 | 502625 | 506582 | 510503 | 40 |
| 21 | 8.482352 | 486497 | 490602 | 494669 | 498699 | 502691 | 506648 | 510568 | 39 |
| 22 | 8.482421 | 486565 | 490670 | 494737 | 498766 | 502758 | 506713 | 510633 | 38 |
| 23 | 8.482491 | 486634 | 490738 | 494804 | 498833 | 502824 | 506779 | 510698 | 37 |
| 24 | 8.482560 | 486703 | 490806 | 494872 | 498899 | 502890 | 506845 | 510763 | 36 |
| 25 | 8.482630 | 486772 | 490875 | 494939 | 498966 | 502956 | 506910 | 510828 | 35 |
| 26 | 8.482699 | 486840 | 490943 | 495007 | 499033 | 503022 | 506976 | 510893 | 34 |
| 27 | 8.482768 | 486909 | 491011 | 495074 | 499100 | 503089 | 507041 | 510958 | 33 |
| 28 | 8.482838 | 486978 | 491079 | 495141 | 499167 | 503155 | 507107 | 511023 | 32 |
| 29 | 8.482907 | 487046 | 491147 | 495209 | 499233 | 503221 | 507172 | 511088 | 31 |
| 30 | 8.482976 | 487115 | 491215 | 495276 | 499300 | 503287 | 507238 | 511153 | 30 |
| 31 | 8.483046 | 487184 | 491283 | 495344 | 499367 | 503353 | 507304 | 511218 | 29 |
| 32 | 8.483115 | 487252 | 491351 | 495411 | 499434 | 503419 | 507369 | 511283 | 28 |
| 33 | 8.483184 | 487321 | 491419 | 495478 | 499500 | 503486 | 507435 | 511348 | 27 |
| 34 | 8.483253 | 487389 | 491487 | 495546 | 499567 | 503552 | 507500 | 511413 | 26 |
| 35 | 8.483323 | 487458 | 491555 | 495613 | 499634 | 503618 | 507566 | 511478 | 25 |
| 36 | 8.483392 | 487527 | 491623 | 495680 | 499700 | 503684 | 507631 | 511543 | 24 |
| 37 | 8.483461 | 487595 | 491690 | 495748 | 499767 | 503750 | 507697 | 511608 | 23 |
| 38 | 8.483530 | 487664 | 491758 | 495815 | 499834 | 503816 | 507762 | 511673 | 22 |
| 39 | 8.483600 | 487732 | 491826 | 495882 | 499900 | 503882 | 507828 | 511738 | 21 |
| 40 | 8.483669 | 487801 | 491894 | 495950 | 499967 | 503948 | 507893 | 511802 | 20 |
| 41 | 8.483738 | 487869 | 491962 | 496017 | 500034 | 504014 | 507958 | 511867 | 19 |
| 42 | 8.483807 | 487938 | 492030 | 496084 | 500100 | 504080 | 508024 | 511931 | 18 |
| 43 | 8.483876 | 488007 | 492098 | 496151 | 500167 | 504146 | 508089 | 511997 | 17 |
| 44 | 8.483945 | 488075 | 492166 | 496218 | 500234 | 504212 | 508155 | 512062 | 16 |
| 45 | 8.484015 | 488144 | 492234 | 496286 | 500300 | 504278 | 508220 | 512127 | 15 |
| 46 | 8.484084 | 488212 | 492301 | 496353 | 500367 | 504344 | 508286 | 512191 | 14 |
| 47 | 8.484153 | 488280 | 492369 | 496420 | 500433 | 504410 | 508351 | 512256 | 13 |
| 48 | 8.484222 | 488349 | 492437 | 496487 | 500500 | 504476 | 508416 | 512321 | 12 |
| 49 | 8.484291 | 488417 | 492505 | 496554 | 500567 | 504542 | 508482 | 512386 | 11 |
| 50 | 8.484360 | 488486 | 492573 | 496622 | 500633 | 504608 | 508547 | 512451 | 10 |
| 51 | 8.484429 | 488554 | 492641 | 496689 | 500700 | 504674 | 508612 | 512515 | 9 |
| 52 | 8.484498 | 488623 | 492708 | 496756 | 500766 | 504740 | 508678 | 512580 | 8 |
| 53 | 8.484567 | 488691 | 492776 | 496823 | 500833 | 504806 | 508743 | 512645 | 7 |
| 54 | 8.484636 | 488759 | 492844 | 496890 | 500899 | 504872 | 508808 | 512710 | 6 |
| 55 | 8.484705 | 488828 | 492912 | 496957 | 500966 | 504938 | 508874 | 512774 | 5 |
| 56 | 8.484774 | 488896 | 492979 | 497024 | 501032 | 505004 | 508939 | 512839 | 4 |
| 57 | 8.484844 | 488965 | 493047 | 497092 | 501099 | 505069 | 509004 | 512904 | 3 |
| 58 | 8.484913 | 489033 | 493115 | 497159 | 501165 | 505135 | 509070 | 512968 | 2 |
| 59 | 8.484982 | 489101 | 493182 | 497226 | 501232 | 505201 | 509135 | 513033 | 1 |
| 60 | 8.485050 | 489170 | 493250 | 497293 | 501298 | 505267 | 509200 | 513098 | 0 |
| " | 15' | 14' | 13' | 12' | 11' | 10' | 9' | 8' | " |

| " | 52' | 53' | 54' | 55' | 56' | 57' | 58' | 59' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.512867 | 516726 | 520551 | 524343 | 528102 | 531828 | 535523 | 539186 | 60 |
| 1 | 8.512932 | 516790 | 520615 | 524406 | 528164 | 531890 | 535584 | 539247 | 59 |
| 2 | 8.512996 | 516854 | 520678 | 524469 | 528226 | 531952 | 535645 | 539308 | 58 |
| 3 | 8.513061 | 516918 | 520742 | 524532 | 528289 | 532014 | 535707 | 539369 | 57 |
| 4 | 8.513126 | 516982 | 520805 | 524595 | 528351 | 532075 | 535768 | 539429 | 56 |
| 5 | 8.513190 | 517046 | 520869 | 524657 | 528413 | 532137 | 535829 | 539490 | 55 |
| 6 | 8.513255 | 517110 | 520932 | 524720 | 528476 | 532199 | 535891 | 539551 | 54 |
| 7 | 8.513319 | 517174 | 520995 | 524783 | 528538 | 532261 | 535952 | 539612 | 53 |
| 8 | 8.513384 | 517238 | 521059 | 524846 | 528600 | 532323 | 536013 | 539672 | 52 |
| 9 | 8.513448 | 517302 | 521122 | 524909 | 528663 | 532384 | 536074 | 539733 | 51 |
| 10 | 8.513513 | 517366 | 521186 | 524972 | 528725 | 532446 | 536136 | 539794 | 50 |
| 11 | 8.513577 | 517430 | 521249 | 525034 | 528787 | 532508 | 536197 | 539855 | 49 |
| 12 | 8.513642 | 517494 | 521312 | 525097 | 528850 | 532570 | 536258 | 539915 | 48 |
| 13 | 8.513706 | 517558 | 521376 | 525160 | 528912 | 532631 | 536319 | 539976 | 47 |
| 14 | 8.513771 | 517622 | 521439 | 525223 | 528974 | 532693 | 536380 | 540037 | 46 |
| 15 | 8.513835 | 517686 | 521502 | 525286 | 529036 | 532755 | 536442 | 540097 | 45 |
| 16 | 8.513900 | 517750 | 521566 | 525348 | 529099 | 532816 | 536503 | 540158 | 44 |
| 17 | 8.513964 | 517814 | 521629 | 525411 | 529161 | 532878 | 536564 | 540219 | 43 |
| 18 | 8.514029 | 517877 | 521692 | 525474 | 529223 | 532940 | 536625 | 540279 | 42 |
| 19 | 8.514093 | 517941 | 521756 | 525537 | 529285 | 533002 | 536686 | 540340 | 41 |
| 20 | 8.514157 | 518005 | 521819 | 525599 | 529347 | 533063 | 536747 | 540401 | 40 |
| 21 | 8.514222 | 518069 | 521882 | 525662 | 529410 | 533125 | 536809 | 540461 | 39 |
| 22 | 8.514286 | 518133 | 521945 | 525725 | 529472 | 533187 | 536870 | 540522 | 38 |
| 23 | 8.514351 | 518197 | 522009 | 525788 | 529534 | 533248 | 536931 | 540583 | 37 |
| 24 | 8.514415 | 518260 | 522072 | 525850 | 529596 | 533310 | 536992 | 540643 | 36 |
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| 27 | 8.514608 | 518452 | 522262 | 526038 | 529783 | 533495 | 537175 | 540825 | 33 |
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| 37 | 8.515251 | 519089 | 522893 | 526665 | 530403 | 534110 | 537786 | 541430 | 23 |
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| 40 | 8.515444 | 519280 | 523083 | 526852 | 530590 | 534295 | 537969 | 541612 | 20 |
| 41 | 8.515508 | 519344 | 523146 | 526915 | 530652 | 534357 | 538030 | 541672 | 19 |
| 42 | 8.515572 | 519407 | 523209 | 526977 | 530714 | 534418 | 538091 | 541733 | 18 |
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| 54 | 8.516342 | 520170 | 523965 | 527727 | 531457 | 535155 | 538821 | 542457 | 6 |
| 55 | 8.516406 | 520234 | 524028 | 527790 | 531519 | 535216 | 538882 | 542518 | 5 |
| 56 | 8.516470 | 520297 | 524091 | 527852 | 531581 | 535278 | 538943 | 542578 | 4 |
| 57 | 8.516534 | 520361 | 524154 | 527915 | 531643 | 535339 | 539004 | 542638 | 3 |
| 58 | 8.516598 | 520424 | 524217 | 527977 | 531704 | 535400 | 539065 | 542699 | 2 |
| 59 | 8.516662 | 520488 | 524280 | 528039 | 531766 | 535462 | 539126 | 542759 | 1 |
| 60 | 8.516726 | 520551 | 524343 | 528102 | 531828 | 535523 | 539186 | 542819 | 0 |
| " | 7' | 6' | 5' | 4' | 3' | 2' | 1' | 0' | " |

| " | 52' | 53' | 54' | 55' | 56' | 57' | 58' | 59' | " |
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| 3 | 8.513292 | 517153 | 520981 | 524775 | 528536 | 532265 | 535963 | 539629 | 57 |
| 4 | 8.513356 | 517217 | 521044 | 524838 | 528599 | 532327 | 536024 | 539690 | 56 |
| 5 | 8.513421 | 517281 | 521108 | 524901 | 528661 | 532389 | 536086 | 539751 | 55 |
| 6 | 8.513486 | 517345 | 521171 | 524964 | 528723 | 532451 | 536147 | 539812 | 54 |
| 7 | 8.513550 | 517409 | 521235 | 525027 | 528786 | 532513 | 536208 | 539873 | 53 |
| 8 | 8.513615 | 517474 | 521298 | 525090 | 528848 | 532575 | 536270 | 539933 | 52 |
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| 17 | 8.514196 | 518049 | 521869 | 525655 | 529409 | 533131 | 536821 | 540480 | 43 |
| 18 | 8.514260 | 518113 | 521932 | 525718 | 529472 | 533193 | 536882 | 540541 | 42 |
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| 22 | 8.514518 | 518369 | 522186 | 525970 | 529721 | 533440 | 537127 | 540784 | 38 |
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| 35 | 8.515356 | 519199 | 523008 | 526785 | 530529 | 534241 | 537922 | 541572 | 25 |
| 36 | 8.515420 | 519263 | 523072 | 526848 | 530591 | 534303 | 537983 | 541633 | 24 |
| 37 | 8.515484 | 519326 | 523135 | 526910 | 530653 | 534364 | 538044 | 541693 | 23 |
| 38 | 8.515548 | 519390 | 523198 | 526973 | 530715 | 534426 | 538105 | 541754 | 22 |
| 39 | 8.515613 | 519454 | 523261 | 527036 | 530778 | 534488 | 538166 | 541814 | 21 |
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| 41 | 8.515741 | 519581 | 523388 | 527161 | 530902 | 534611 | 538288 | 541935 | 19 |
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| 45 | 8.515998 | 519836 | 523640 | 527411 | 531150 | 534857 | 538533 | 542177 | 15 |
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| 47 | 8.516127 | 519963 | 523766 | 527536 | 531274 | 534980 | 538655 | 542298 | 13 |
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| 56 | 8.516703 | 520536 | 524334 | 528099 | 531832 | 535533 | 539203 | 542842 | 4 |
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| 58 | 8.516833 | 520663 | 524460 | 528224 | 531956 | 535656 | 539325 | 542963 | 2 |
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| " | 7' | 6' | 5' | 4' | 3' | 2' | 1' | 0' | " |

| " | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | " |
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| 3 | 8.543000 | 546601 | 550173 | 553715 | 557229 | 560714 | 564172 | 567602 | 57 |
| 4 | 8.543060 | 546661 | 550232 | 553774 | 557287 | 560772 | 564229 | 567659 | 56 |
| 5 | 8.543121 | 546721 | 550291 | 553833 | 557345 | 560830 | 564286 | 567716 | 55 |
| 6 | 8.543181 | 546780 | 550350 | 553891 | 557404 | 560888 | 564344 | 567773 | 54 |
| 7 | 8.543241 | 546840 | 550410 | 553950 | 557462 | 560945 | 564401 | 567830 | 53 |
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| 12 | 8.543542 | 547139 | 550706 | 554244 | 557753 | 561234 | 564688 | 568114 | 48 |
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| 14 | 8.543662 | 547258 | 550824 | 554361 | 557870 | 561350 | 564803 | 568228 | 46 |
| 15 | 8.543723 | 547318 | 550883 | 554420 | 557928 | 561408 | 564860 | 568285 | 45 |
| 16 | 8.543783 | 547377 | 550943 | 554479 | 557986 | 561466 | 564917 | 568342 | 44 |
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| 18 | 8.543903 | 547497 | 551061 | 554596 | 558103 | 561581 | 565032 | 568455 | 42 |
| 19 | 8.543963 | 547556 | 551120 | 554655 | 558161 | 561639 | 565089 | 568512 | 41 |
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| 21 | 8.544083 | 547676 | 551238 | 554772 | 558277 | 561754 | 565204 | 568626 | 39 |
| 22 | 8.544144 | 547735 | 551298 | 554831 | 558335 | 561812 | 565261 | 568683 | 38 |
| 23 | 8.544204 | 547795 | 551357 | 554889 | 558394 | 561870 | 565318 | 568739 | 37 |
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| 28 | 8.544504 | 548093 | 551652 | 555182 | 558684 | 562158 | 565604 | 569023 | 32 |
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| 32 | 8.544744 | 548331 | 551888 | 555417 | 558917 | 562389 | 565833 | 569250 | 28 |
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| 35 | 8.544924 | 548510 | 552066 | 555592 | 559091 | 562562 | 566005 | 569420 | 25 |
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| 39 | 8.545164 | 548748 | 552302 | 555827 | 559323 | 562792 | 566233 | 569647 | 21 |
| 40 | 8.545224 | 548807 | 552361 | 555885 | 559381 | 562849 | 566290 | 569704 | 20 |
| 41 | 8.545284 | 548867 | 552419 | 555944 | 559439 | 562907 | 566347 | 569760 | 19 |
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| 45 | 8.545524 | 549104 | 552655 | 556178 | 559671 | 563137 | 566576 | 569987 | 15 |
| 46 | 8.545584 | 549164 | 552714 | 556236 | 559729 | 563195 | 566633 | 570044 | 14 |
| 47 | 8.545644 | 549223 | 552773 | 556294 | 559787 | 563252 | 566690 | 570100 | 13 |
| 48 | 8.545704 | 549283 | 552832 | 556353 | 559845 | 563310 | 566747 | 570157 | 12 |
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| 50 | 8.545823 | 549401 | 552950 | 556470 | 559961 | 563425 | 566861 | 570270 | 10 |
| 51 | 8.545883 | 549461 | 553009 | 556528 | 559999 | 563482 | 566918 | 570327 | 9 |
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| 55 | 8.546123 | 549698 | 553244 | 556762 | 560251 | 563712 | 567146 | 570553 | 5 |
| 56 | 8.546183 | 549757 | 553303 | 556820 | 560309 | 563770 | 567203 | 570610 | 4 |
| 57 | 8.546242 | 549817 | 553362 | 556879 | 560367 | 563827 | 567260 | 570666 | 3 |
| 58 | 8.546302 | 549876 | 553421 | 556937 | 560425 | 563885 | 567317 | 570723 | 2 |
| 59 | 8.546362 | 549935 | 553480 | 556995 | 560483 | 563942 | 567374 | 570779 | 1 |
| 60 | 8.546422 | 549995 | 553539 | 557054 | 560540 | 563999 | 567431 | 570836 | 0 |
| " | 59' | 58' | 57' | 56' | 55' | 54' | 53' | 52' | " |

| " | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | " |
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| 2 | 8.543205 | 546811 | 550387 | 553934 | 557453 | 560943 | 564406 | 567842 | 58 |
| 3 | 8.543265 | 546870 | 550446 | 553993 | 557511 | 561001 | 564464 | 567899 | 57 |
| 4 | 8.543325 | 546930 | 550506 | 554052 | 557570 | 561059 | 564521 | 567956 | 56 |
| 5 | 8.543386 | 546990 | 550565 | 554111 | 557628 | 561117 | 564579 | 568013 | 55 |
| 6 | 8.543446 | 547050 | 550624 | 554170 | 557687 | 561175 | 564636 | 568070 | 54 |
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| 11 | 8.543747 | 547349 | 550921 | 554464 | 557978 | 561465 | 564923 | 568355 | 49 |
| 12 | 8.543808 | 547409 | 550980 | 554523 | 558037 | 561523 | 564981 | 568411 | 48 |
| 13 | 8.543868 | 547468 | 551040 | 554582 | 558095 | 561580 | 565038 | 568468 | 47 |
| 14 | 8.543928 | 547528 | 551099 | 554640 | 558153 | 561638 | 565095 | 568525 | 46 |
| 15 | 8.543988 | 547588 | 551158 | 554699 | 558212 | 561696 | 565153 | 568582 | 45 |
| 16 | 8.544049 | 547648 | 551217 | 554758 | 558270 | 561754 | 565210 | 568639 | 44 |
| 17 | 8.544109 | 547707 | 551277 | 554817 | 558328 | 561812 | 565268 | 568696 | 43 |
| 18 | 8.544169 | 547767 | 551336 | 554875 | 558387 | 561870 | 565325 | 568753 | 42 |
| 19 | 8.544229 | 547827 | 551395 | 554934 | 558445 | 561927 | 565382 | 568810 | 41 |
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| 23 | 8.544470 | 548066 | 551632 | 555169 | 558678 | 562159 | 565612 | 569038 | 37 |
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| 26 | 8.544651 | 548245 | 551809 | 555345 | 558853 | 562332 | 565784 | 569208 | 34 |
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| 35 | 8.545192 | 548781 | 552342 | 555873 | 559376 | 562851 | 566299 | 569720 | 25 |
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| 49 | 8.546032 | 549615 | 553168 | 556693 | 560190 | 563658 | 567100 | 570514 | 11 |
| 50 | 8.546092 | 549674 | 553227 | 556752 | 560248 | 563716 | 567157 | 570570 | 10 |
| 51 | 8.546152 | 549734 | 553286 | 556811 | 560307 | 563773 | 567214 | 570627 | 9 |
| 52 | 8.546212 | 549793 | 553345 | 556869 | 560364 | 563831 | 567271 | 570684 | 8 |
| 53 | 8.546272 | 549852 | 553404 | 556927 | 560422 | 563889 | 567328 | 570740 | 7 |
| 54 | 8.546332 | 549912 | 553463 | 556986 | 560480 | 563946 | 567385 | 570797 | 6 |
| 55 | 8.546391 | 549971 | 553522 | 557044 | 560538 | 564004 | 567442 | 570854 | 5 |
| 56 | 8.546451 | 550031 | 553581 | 557102 | 560596 | 564061 | 567499 | 570910 | 4 |
| 57 | 8.546511 | 550090 | 553640 | 557161 | 560654 | 564119 | 567556 | 570967 | 3 |
| 58 | 8.546571 | 550150 | 553699 | 557219 | 560712 | 564176 | 567613 | 571024 | 2 |
| 59 | 8.546631 | 550209 | 553758 | 557278 | 560770 | 564234 | 567670 | 571080 | 1 |
| 60 | 8.546691 | 550268 | 553817 | 557336 | 560828 | 564291 | 567727 | 571137 | 0 |
| " | 59' | 58' | 57' | 56' | 55' | 54' | 53' | 52' | " |

| " | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.570836 | 574214 | 577566 | 580892 | 584193 | 587469 | 590721 | 593948 | 60 |
| 1 | 8.570892 | 574270 | 577622 | 580948 | 584248 | 587524 | 590775 | 594002 | 59 |
| 2 | 8.570949 | 574326 | 577677 | 581003 | 584303 | 587578 | 590829 | 594055 | 58 |
| 3 | 8.571005 | 574382 | 577733 | 581058 | 584358 | 587633 | 590883 | 594109 | 57 |
| 4 | 8.571062 | 574438 | 577789 | 581113 | 584413 | 587687 | 590937 | 594163 | 56 |
| 5 | 8.571118 | 574494 | 577844 | 581168 | 584467 | 587741 | 590991 | 594216 | 55 |
| 6 | 8.571175 | 574550 | 577900 | 581224 | 584522 | 587796 | 591045 | 594270 | 54 |
| 7 | 8.571231 | 574606 | 577955 | 581279 | 584577 | 587850 | 591099 | 594323 | 53 |
| 8 | 8.571288 | 574662 | 578011 | 581334 | 584632 | 587904 | 591153 | 594377 | 52 |
| 9 | 8.571344 | 574718 | 578067 | 581389 | 584686 | 587959 | 591207 | 594430 | 51 |
| 10 | 8.571401 | 574774 | 578122 | 581444 | 584741 | 588013 | 591260 | 594484 | 50 |
| 11 | 8.571457 | 574830 | 578178 | 581499 | 584796 | 588067 | 591314 | 594537 | 49 |
| 12 | 8.571513 | 574886 | 578233 | 581555 | 584851 | 588122 | 591368 | 594591 | 48 |
| 13 | 8.571570 | 574942 | 578289 | 581610 | 584905 | 588176 | 591422 | 594644 | 47 |
| 14 | 8.571626 | 574998 | 578344 | 581665 | 584960 | 588230 | 591476 | 594698 | 46 |
| 15 | 8.571683 | 575054 | 578400 | 581720 | 585015 | 588285 | 591530 | 594751 | 45 |
| 16 | 8.571739 | 575110 | 578455 | 581775 | 585069 | 588339 | 591584 | 594805 | 44 |
| 17 | 8.571796 | 575166 | 578511 | 581830 | 585124 | 588393 | 591638 | 594858 | 43 |
| 18 | 8.571852 | 575222 | 578567 | 581885 | 585179 | 588447 | 591692 | 594912 | 42 |
| 19 | 8.571908 | 575278 | 578622 | 581940 | 585233 | 588502 | 591746 | 594965 | 41 |
| 20 | 8.571965 | 575334 | 578678 | 581995 | 585288 | 588556 | 591799 | 595019 | 40 |
| 21 | 8.572021 | 575390 | 578733 | 582051 | 585343 | 588610 | 591853 | 595072 | 39 |
| 22 | 8.572077 | 575446 | 578789 | 582106 | 585397 | 588664 | 591907 | 595126 | 38 |
| 23 | 8.572134 | 575502 | 578844 | 582161 | 585452 | 588719 | 591961 | 595179 | 37 |
| 24 | 8.572190 | 575558 | 578900 | 582216 | 585507 | 588773 | 592015 | 595232 | 36 |
| 25 | 8.572247 | 575614 | 578955 | 582271 | 585561 | 588827 | 592069 | 595286 | 35 |
| 26 | 8.572303 | 575670 | 579011 | 582326 | 585616 | 588881 | 592122 | 595339 | 34 |
| 27 | 8.572359 | 575726 | 579066 | 582381 | 585671 | 588936 | 592176 | 595393 | 33 |
| 28 | 8.572415 | 575781 | 579121 | 582436 | 585725 | 588990 | 592230 | 595446 | 32 |
| 29 | 8.572472 | 575837 | 579177 | 582491 | 585780 | 589044 | 592284 | 595500 | 31 |
| 30 | 8.572528 | 575893 | 579232 | 582546 | 585834 | 589098 | 592338 | 595553 | 30 |
| 31 | 8.572584 | 575949 | 579288 | 582601 | 585889 | 589152 | 592391 | 595606 | 29 |
| 32 | 8.572641 | 576005 | 579343 | 582656 | 585944 | 589207 | 592445 | 595660 | 28 |
| 33 | 8.572697 | 576061 | 579399 | 582711 | 585998 | 589261 | 592499 | 595713 | 27 |
| 34 | 8.572753 | 576117 | 579454 | 582766 | 586053 | 589315 | 592553 | 595766 | 26 |
| 35 | 8.572810 | 576172 | 579509 | 582821 | 586107 | 589369 | 592606 | 595820 | 25 |
| 36 | 8.572866 | 576228 | 579565 | 582876 | 586162 | 589423 | 592660 | 595873 | 24 |
| 37 | 8.572922 | 576284 | 579620 | 582931 | 586217 | 589477 | 592714 | 595927 | 23 |
| 38 | 8.572978 | 576340 | 579676 | 582986 | 586271 | 589532 | 592768 | 595980 | 22 |
| 39 | 8.573035 | 576396 | 579731 | 583041 | 586326 | 589586 | 592822 | 596033 | 21 |
| 40 | 8.573091 | 576451 | 579786 | 583096 | 586380 | 589640 | 592875 | 596087 | 20 |
| 41 | 8.573147 | 576507 | 579842 | 583151 | 586435 | 589694 | 592929 | 596140 | 19 |
| 42 | 8.573203 | 576563 | 579897 | 583206 | 586489 | 589748 | 592983 | 596193 | 18 |
| 43 | 8.573259 | 576619 | 579952 | 583261 | 586544 | 589802 | 593036 | 596246 | 17 |
| 44 | 8.573316 | 576675 | 580008 | 583316 | 586598 | 589856 | 593090 | 596300 | 16 |
| 45 | 8.573372 | 576730 | 580063 | 583370 | 586653 | 589910 | 593144 | 596353 | 15 |
| 46 | 8.573428 | 576786 | 580118 | 583425 | 586707 | 589964 | 593197 | 596406 | 14 |
| 47 | 8.573484 | 576842 | 580174 | 583480 | 586762 | 590019 | 593251 | 596460 | 13 |
| 48 | 8.573540 | 576898 | 580229 | 583535 | 586816 | 590073 | 593305 | 596513 | 12 |
| 49 | 8.573595 | 576953 | 580284 | 583590 | 586871 | 590127 | 593358 | 596566 | 11 |
| 50 | 8.573651 | 577009 | 580339 | 583645 | 586925 | 590181 | 593412 | 596619 | 10 |
| 51 | 8.573709 | 577065 | 580395 | 583700 | 586980 | 590235 | 593466 | 596673 | 9 |
| 52 | 8.573765 | 577121 | 580450 | 583755 | 587034 | 590289 | 593519 | 596726 | 8 |
| 53 | 8.573821 | 577176 | 580506 | 583809 | 587088 | 590343 | 593573 | 596779 | 7 |
| 54 | 8.573877 | 577232 | 580561 | 583864 | 587143 | 590397 | 593627 | 596832 | 6 |
| 55 | 8.573933 | 577288 | 580616 | 583919 | 587197 | 590451 | 593680 | 596886 | 5 |
| 56 | 8.573990 | 577343 | 580671 | 583974 | 587252 | 590505 | 593734 | 596939 | 4 |
| 57 | 8.574046 | 577399 | 580727 | 584029 | 587306 | 590559 | 593787 | 596992 | 3 |
| 58 | 8.574102 | 577455 | 580782 | 584084 | 587361 | 590613 | 593841 | 597045 | 2 |
| 59 | 8.574158 | 577510 | 580837 | 584139 | 587415 | 590667 | 593895 | 597099 | 1 |
| 60 | 8.574214 | 577566 | 580892 | 584193 | 587469 | 590721 | 593948 | 597152 | 0 |
| " | 51' | 50' | 49' | 48' | 47' | 46' | 45' | 44' | " |

| " | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 571137 | 574520 | 577877 | 581208 | 584514 | 587795 | 591051 | 594283 | 60 |
| 1 | 8 571193 | 574576 | 577932 | 581263 | 584568 | 587849 | 591105 | 594337 | 59 |
| 2 | 8 571250 | 574632 | 577988 | 581318 | 584623 | 587903 | 591159 | 594391 | 58 |
| 3 | 8 571307 | 574688 | 578044 | 581374 | 584678 | 587958 | 591213 | 594444 | 57 |
| 4 | 8 571363 | 574744 | 578099 | 581429 | 584733 | 588012 | 591267 | 594498 | 56 |
| 5 | 8 571420 | 574800 | 578155 | 581484 | 584788 | 588067 | 591321 | 594551 | 55 |
| 6 | 8 571476 | 574857 | 578211 | 581539 | 584843 | 588121 | 591375 | 594605 | 54 |
| 7 | 8 571533 | 574913 | 578267 | 581595 | 584898 | 588176 | 591429 | 594659 | 53 |
| 8 | 8 571589 | 574969 | 578322 | 581650 | 584952 | 588230 | 591483 | 594712 | 52 |
| 9 | 8 571646 | 575025 | 578378 | 581705 | 585007 | 588285 | 591537 | 594766 | 51 |
| 10 | 8 571702 | 575081 | 578434 | 581760 | 585062 | 588339 | 591591 | 594820 | 50 |
| 11 | 8 571759 | 575137 | 578489 | 581816 | 585117 | 588393 | 591645 | 594873 | 49 |
| 12 | 8 571816 | 575193 | 578545 | 581871 | 585172 | 588448 | 591699 | 594927 | 48 |
| 13 | 8 571872 | 575249 | 578601 | 581926 | 585227 | 588502 | 591753 | 594980 | 47 |
| 14 | 8 571929 | 575305 | 578656 | 581981 | 585281 | 588557 | 591807 | 595034 | 46 |
| 15 | 8 571985 | 575361 | 578712 | 582037 | 585336 | 588611 | 591861 | 595088 | 45 |
| 16 | 8 572042 | 575417 | 578767 | 582092 | 585391 | 588665 | 591915 | 595141 | 44 |
| 17 | 8 572098 | 575473 | 578823 | 582147 | 585446 | 588720 | 591969 | 595195 | 43 |
| 18 | 8 572154 | 575530 | 578879 | 582202 | 585500 | 588774 | 592023 | 595248 | 42 |
| 19 | 8 572211 | 575586 | 578934 | 582257 | 585555 | 588828 | 592077 | 595302 | 41 |
| 20 | 8 572267 | 575642 | 578990 | 582312 | 585610 | 588883 | 592131 | 595355 | 40 |
| 21 | 8 572324 | 575698 | 579045 | 582368 | 585665 | 588937 | 592185 | 595409 | 39 |
| 22 | 8 572380 | 575754 | 579101 | 582423 | 585719 | 588991 | 592239 | 595462 | 38 |
| 23 | 8 572437 | 575810 | 579157 | 582478 | 585774 | 589046 | 592293 | 595516 | 37 |
| 24 | 8 572493 | 575866 | 579212 | 582533 | 585829 | 589100 | 592347 | 595569 | 36 |
| 25 | 8 572550 | 575922 | 579268 | 582588 | 585884 | 589154 | 592401 | 595623 | 35 |
| 26 | 8 572606 | 575978 | 579323 | 582643 | 585938 | 589209 | 592455 | 595676 | 34 |
| 27 | 8 572662 | 576034 | 579379 | 582698 | 585993 | 589263 | 592508 | 595730 | 33 |
| 28 | 8 572719 | 576089 | 579434 | 582754 | 586048 | 589317 | 592562 | 595783 | 32 |
| 29 | 8 572775 | 576145 | 579490 | 582809 | 586102 | 589371 | 592616 | 595837 | 31 |
| 30 | 8 572832 | 576201 | 579545 | 582864 | 586157 | 589426 | 592670 | 595890 | 30 |
| 31 | 8 572888 | 576257 | 579601 | 582919 | 586212 | 589480 | 592724 | 595944 | 29 |
| 32 | 8 572944 | 576313 | 579656 | 582974 | 586266 | 589534 | 592778 | 595997 | 28 |
| 33 | 8 573001 | 576369 | 579712 | 583029 | 586321 | 589589 | 592832 | 596051 | 27 |
| 34 | 8 573057 | 576425 | 579767 | 583084 | 586376 | 589643 | 592886 | 596104 | 26 |
| 35 | 8 573113 | 576481 | 579823 | 583139 | 586430 | 589697 | 592939 | 596158 | 25 |
| 36 | 8 573170 | 576537 | 579878 | 583194 | 586485 | 589751 | 592993 | 596211 | 24 |
| 37 | 8 573226 | 576593 | 579934 | 583249 | 586540 | 589806 | 593047 | 596265 | 23 |
| 38 | 8 573282 | 576649 | 579989 | 583304 | 586594 | 589860 | 593101 | 596318 | 22 |
| 39 | 8 573339 | 576705 | 580045 | 583359 | 586649 | 589914 | 593155 | 596371 | 21 |
| 40 | 8 573395 | 576761 | 580100 | 583414 | 586703 | 589968 | 593208 | 596425 | 20 |
| 41 | 8 573451 | 576816 | 580156 | 583469 | 586758 | 590022 | 593262 | 596478 | 19 |
| 42 | 8 573508 | 576872 | 580211 | 583524 | 586813 | 590077 | 593316 | 596532 | 18 |
| 43 | 8 573564 | 576928 | 580266 | 583579 | 586867 | 590131 | 593370 | 596585 | 17 |
| 44 | 8 573620 | 576984 | 580322 | 583634 | 586922 | 590185 | 593424 | 596638 | 16 |
| 45 | 8 573676 | 577040 | 580377 | 583689 | 586977 | 590239 | 593477 | 596692 | 15 |
| 46 | 8 573733 | 577096 | 580433 | 583744 | 587031 | 590293 | 593531 | 596745 | 14 |
| 47 | 8 573789 | 577151 | 580488 | 583799 | 587086 | 590347 | 593585 | 596799 | 13 |
| 48 | 8 573845 | 577207 | 580544 | 583854 | 587140 | 590402 | 593639 | 596852 | 12 |
| 49 | 8 573902 | 577263 | 580599 | 583909 | 587195 | 590456 | 593692 | 596905 | 11 |
| 50 | 8 573958 | 577319 | 580654 | 583964 | 587249 | 590510 | 593746 | 596959 | 10 |
| 51 | 8 574014 | 577375 | 580710 | 584019 | 587303 | 590564 | 593800 | 597012 | 9 |
| 52 | 8 574070 | 577430 | 580765 | 584074 | 587358 | 590618 | 593854 | 597065 | 8 |
| 53 | 8 574126 | 577486 | 580820 | 584129 | 587413 | 590672 | 593907 | 597119 | 7 |
| 54 | 8 574183 | 577542 | 580876 | 584184 | 587468 | 590726 | 593961 | 597172 | 6 |
| 55 | 8 574239 | 577598 | 580931 | 584239 | 587522 | 590781 | 594015 | 597225 | 5 |
| 56 | 8 574295 | 577654 | 580986 | 584294 | 587577 | 590835 | 594068 | 597279 | 4 |
| 57 | 8 574351 | 577709 | 581042 | 584349 | 587631 | 590889 | 594122 | 597332 | 3 |
| 58 | 8 574407 | 577765 | 581097 | 584404 | 587686 | 590943 | 594176 | 597385 | 2 |
| 59 | 8 574464 | 577821 | 581152 | 584459 | 587740 | 590997 | 594230 | 597438 | 1 |
| 60 | 8 574520 | 577877 | 581208 | 584514 | 587795 | 591051 | 594283 | 597492 | 0 |
| " | 51' | 50' | 49' | 48' | 47' | 46' | 45' | 44' | " |

| " | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.597152 | 600332 | 603489 | 606623 | 609734 | 612823 | 615891 | 618937 | 60 |
| 1 | 8.597205 | 600385 | 603541 | 606675 | 609786 | 612875 | 615942 | 618987 | 59 |
| 2 | 8.597258 | 600437 | 603593 | 606727 | 609837 | 612926 | 615993 | 619038 | 58 |
| 3 | 8.597311 | 600490 | 603646 | 606779 | 609889 | 612977 | 616044 | 619089 | 57 |
| 4 | 8.597364 | 600543 | 603698 | 606831 | 609941 | 613029 | 616095 | 619139 | 56 |
| 5 | 8.597418 | 600596 | 603751 | 606883 | 609992 | 613080 | 616146 | 619190 | 55 |
| 6 | 8.597471 | 600648 | 603803 | 606935 | 610044 | 613131 | 616197 | 619240 | 54 |
| 7 | 8.597524 | 600701 | 603855 | 606987 | 610096 | 613182 | 616247 | 619291 | 53 |
| 8 | 8.597577 | 600754 | 603908 | 607039 | 610147 | 613234 | 616298 | 619341 | 52 |
| 9 | 8.597630 | 600807 | 603960 | 607091 | 610199 | 613285 | 616349 | 619392 | 51 |
| 10 | 8.597683 | 600859 | 604012 | 607143 | 610251 | 613336 | 616400 | 619442 | 50 |
| 11 | 8.597736 | 600912 | 604065 | 607195 | 610302 | 613387 | 616451 | 619493 | 49 |
| 12 | 8.597790 | 600965 | 604117 | 607247 | 610354 | 613439 | 616502 | 619544 | 48 |
| 13 | 8.597843 | 601018 | 604170 | 607299 | 610405 | 613490 | 616553 | 619594 | 47 |
| 14 | 8.597896 | 601070 | 604222 | 607351 | 610457 | 613541 | 616604 | 619645 | 46 |
| 15 | 8.597949 | 601123 | 604274 | 607403 | 610509 | 613592 | 616655 | 619695 | 45 |
| 16 | 8.598002 | 601176 | 604327 | 607455 | 610560 | 613644 | 616705 | 619746 | 44 |
| 17 | 8.598055 | 601228 | 604379 | 607506 | 610612 | 613695 | 616756 | 619796 | 43 |
| 18 | 8.598108 | 601281 | 604431 | 607558 | 610663 | 613746 | 616807 | 619847 | 42 |
| 19 | 8.598161 | 601334 | 604483 | 607610 | 610715 | 613797 | 616858 | 619897 | 41 |
| 20 | 8.598214 | 601387 | 604536 | 607662 | 610766 | 613848 | 616909 | 619947 | 40 |
| 21 | 8.598267 | 601439 | 604588 | 607714 | 610818 | 613900 | 616959 | 619998 | 39 |
| 22 | 8.598320 | 601492 | 604640 | 607766 | 610869 | 613951 | 617010 | 620048 | 38 |
| 23 | 8.598373 | 601545 | 604693 | 607818 | 610921 | 614002 | 617061 | 620099 | 37 |
| 24 | 8.598427 | 601597 | 604745 | 607870 | 610972 | 614053 | 617112 | 620149 | 36 |
| 25 | 8.598480 | 601650 | 604797 | 607922 | 611024 | 614104 | 617163 | 620200 | 35 |
| 26 | 8.598533 | 601703 | 604849 | 607974 | 611076 | 614155 | 617213 | 620250 | 34 |
| 27 | 8.598586 | 601755 | 604902 | 608026 | 611127 | 614207 | 617264 | 620301 | 33 |
| 28 | 8.598639 | 601808 | 604954 | 608078 | 611179 | 614258 | 617315 | 620351 | 32 |
| 29 | 8.598692 | 601860 | 605006 | 608130 | 611231 | 614309 | 617366 | 620402 | 31 |
| 30 | 8.598745 | 601913 | 605058 | 608182 | 611283 | 614360 | 617417 | 620453 | 30 |
| 31 | 8.598798 | 601966 | 605111 | 608233 | 611333 | 614411 | 617467 | 620504 | 29 |
| 32 | 8.598851 | 602018 | 605163 | 608285 | 611384 | 614462 | 617518 | 620553 | 28 |
| 33 | 8.598904 | 602071 | 605215 | 608337 | 611436 | 614513 | 617569 | 620603 | 27 |
| 34 | 8.598957 | 602123 | 605267 | 608389 | 611487 | 614564 | 617620 | 620653 | 26 |
| 35 | 8.599010 | 602176 | 605319 | 608440 | 611539 | 614615 | 617670 | 620704 | 25 |
| 36 | 8.599063 | 602229 | 605372 | 608492 | 611590 | 614667 | 617721 | 620754 | 24 |
| 37 | 8.599115 | 602281 | 605424 | 608544 | 611642 | 614718 | 617772 | 620805 | 23 |
| 38 | 8.599168 | 602334 | 605476 | 608596 | 611693 | 614769 | 617823 | 620855 | 22 |
| 39 | 8.599221 | 602386 | 605528 | 608648 | 611745 | 614820 | 617873 | 620905 | 21 |
| 40 | 8.599274 | 602439 | 605580 | 608699 | 611796 | 614871 | 617924 | 620956 | 20 |
| 41 | 8.599327 | 602491 | 605633 | 608751 | 611848 | 614922 | 617975 | 621006 | 19 |
| 42 | 8.599380 | 602544 | 605685 | 608803 | 611899 | 614973 | 618025 | 621056 | 18 |
| 43 | 8.599433 | 602596 | 605737 | 608855 | 611950 | 615024 | 618076 | 621107 | 17 |
| 44 | 8.599486 | 602649 | 605789 | 608907 | 612002 | 615075 | 618127 | 621157 | 16 |
| 45 | 8.599539 | 602702 | 605841 | 608958 | 612053 | 615126 | 618177 | 621207 | 15 |
| 46 | 8.599592 | 602754 | 605893 | 609010 | 612105 | 615177 | 618228 | 621258 | 14 |
| 47 | 8.599645 | 602807 | 605945 | 609062 | 612156 | 615228 | 618279 | 621308 | 13 |
| 48 | 8.599698 | 602859 | 605998 | 609114 | 612207 | 615279 | 618329 | 621358 | 12 |
| 49 | 8.599750 | 602912 | 606050 | 609165 | 612259 | 615330 | 618380 | 621409 | 11 |
| 50 | 8.599803 | 602964 | 606102 | 609217 | 612310 | 615381 | 618431 | 621459 | 10 |
| 51 | 8.599856 | 603016 | 606154 | 609269 | 612361 | 615432 | 618481 | 621509 | 9 |
| 52 | 8.599909 | 603069 | 606206 | 609321 | 612413 | 615483 | 618532 | 621560 | 8 |
| 53 | 8.599962 | 603121 | 606258 | 609372 | 612464 | 615534 | 618583 | 621610 | 7 |
| 54 | 8.600015 | 603174 | 606310 | 609424 | 612516 | 615585 | 618633 | 621660 | 6 |
| 55 | 8.600068 | 603226 | 606362 | 609476 | 612567 | 615636 | 618684 | 621710 | 5 |
| 56 | 8.600120 | 603279 | 606414 | 609527 | 612618 | 615687 | 618735 | 621761 | 4 |
| 57 | 8.600173 | 603331 | 606466 | 609579 | 612670 | 615738 | 618785 | 621811 | 3 |
| 58 | 8.600226 | 603384 | 606518 | 609631 | 612721 | 615789 | 618836 | 621861 | 2 |
| 59 | 8.600279 | 603436 | 606571 | 609682 | 612772 | 615840 | 618886 | 621911 | 1 |
| 60 | 8.600332 | 603489 | 606623 | 609734 | 612823 | 615891 | 618937 | 621962 | 0 |
| " | 43' | 42' | 41' | 40' | 39' | 38' | 37' | 36' | " |

| " | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.597492 | 600677 | 603839 | 606978 | 610094 | 613189 | 616262 | 619313 | 60 |
| 1 | 8.597545 | 600730 | 603891 | 607030 | 610146 | 613240 | 616313 | 619363 | 59 |
| 2 | 8.597598 | 600782 | 603944 | 607082 | 610198 | 613292 | 616364 | 619414 | 58 |
| 3 | 8.597651 | 600835 | 603996 | 607134 | 610250 | 613343 | 616415 | 619465 | 57 |
| 4 | 8.597705 | 600888 | 604049 | 607186 | 610301 | 613394 | 616466 | 619515 | 56 |
| 5 | 8.597758 | 600941 | 604101 | 607238 | 610353 | 613446 | 616517 | 619566 | 55 |
| 6 | 8.597811 | 600994 | 604153 | 607290 | 610405 | 613497 | 616568 | 619617 | 54 |
| 7 | 8.597864 | 601047 | 604206 | 607342 | 610456 | 613548 | 616619 | 619667 | 53 |
| 8 | 8.597918 | 601100 | 604258 | 607394 | 610508 | 613600 | 616670 | 619718 | 52 |
| 9 | 8.597971 | 601152 | 604311 | 607447 | 610560 | 613651 | 616721 | 619769 | 51 |
| 10 | 8.598024 | 601205 | 604363 | 607499 | 610612 | 613702 | 616772 | 619819 | 50 |
| 11 | 8.598077 | 601258 | 604416 | 607551 | 610663 | 613754 | 616823 | 619870 | 49 |
| 12 | 8.598131 | 601311 | 604468 | 607603 | 610715 | 613805 | 616874 | 619920 | 48 |
| 13 | 8.598184 | 601364 | 604521 | 607655 | 610767 | 613856 | 616924 | 619971 | 47 |
| 14 | 8.598237 | 601417 | 604573 | 607707 | 610818 | 613908 | 616975 | 620022 | 46 |
| 15 | 8.598290 | 601469 | 604625 | 607759 | 610870 | 613959 | 617026 | 620072 | 45 |
| 16 | 8.598343 | 601522 | 604678 | 607811 | 610922 | 614010 | 617077 | 620123 | 44 |
| 17 | 8.598396 | 601575 | 604730 | 607863 | 610973 | 614062 | 617128 | 620173 | 43 |
| 18 | 8.598450 | 601628 | 604783 | 607915 | 611025 | 614113 | 617179 | 620224 | 42 |
| 19 | 8.598503 | 601680 | 604835 | 607967 | 611077 | 614164 | 617230 | 620275 | 41 |
| 20 | 8.598556 | 601733 | 604887 | 608019 | 611128 | 614215 | 617281 | 620325 | 40 |
| 21 | 8.598609 | 601786 | 604940 | 608071 | 611180 | 614267 | 617332 | 620376 | 39 |
| 22 | 8.598662 | 601839 | 604992 | 608123 | 611232 | 614318 | 617383 | 620426 | 38 |
| 23 | 8.598715 | 601891 | 605045 | 608175 | 611283 | 614369 | 617434 | 620477 | 37 |
| 24 | 8.598768 | 601944 | 605097 | 608227 | 611335 | 614421 | 617485 | 620527 | 36 |
| 25 | 8.598822 | 601997 | 605149 | 608279 | 611386 | 614472 | 617535 | 620578 | 35 |
| 26 | 8.598875 | 602050 | 605202 | 608331 | 611438 | 614523 | 617586 | 620628 | 34 |
| 27 | 8.598928 | 602102 | 605254 | 608383 | 611490 | 614574 | 617637 | 620679 | 33 |
| 28 | 8.598981 | 602155 | 605306 | 608435 | 611541 | 614625 | 617688 | 620729 | 32 |
| 29 | 8.599034 | 602208 | 605359 | 608487 | 611593 | 614677 | 617739 | 620780 | 31 |
| 30 | 8.599087 | 602260 | 605411 | 608539 | 611644 | 614728 | 617790 | 620830 | 30 |
| 31 | 8.599140 | 602313 | 605463 | 608591 | 611695 | 614779 | 617841 | 620881 | 29 |
| 32 | 8.599193 | 602366 | 605516 | 608643 | 611747 | 614830 | 617892 | 620931 | 28 |
| 33 | 8.599246 | 602419 | 605568 | 608695 | 611799 | 614882 | 617942 | 620982 | 27 |
| 34 | 8.599299 | 602471 | 605620 | 608747 | 611851 | 614933 | 617993 | 621032 | 26 |
| 35 | 8.599352 | 602524 | 605672 | 608798 | 611902 | 614984 | 618044 | 621083 | 25 |
| 36 | 8.599405 | 602577 | 605725 | 608850 | 611954 | 615035 | 618095 | 621133 | 24 |
| 37 | 8.599459 | 602629 | 605777 | 608902 | 612005 | 615086 | 618146 | 621184 | 23 |
| 38 | 8.599512 | 602682 | 605829 | 608954 | 612057 | 615137 | 618196 | 621234 | 22 |
| 39 | 8.599565 | 602735 | 605882 | 609006 | 612108 | 615189 | 618247 | 621285 | 21 |
| 40 | 8.599618 | 602788 | 605935 | 609058 | 612160 | 615240 | 618298 | 621335 | 20 |
| 41 | 8.599671 | 602840 | 605987 | 609110 | 612211 | 615291 | 618349 | 621386 | 19 |
| 42 | 8.599724 | 602892 | 606038 | 609162 | 612263 | 615342 | 618400 | 621436 | 18 |
| 43 | 8.599777 | 602945 | 606091 | 609214 | 612314 | 615393 | 618450 | 621486 | 17 |
| 44 | 8.599830 | 602998 | 606143 | 609265 | 612366 | 615444 | 618501 | 621537 | 16 |
| 45 | 8.599883 | 603050 | 606195 | 609317 | 612417 | 615495 | 618552 | 621587 | 15 |
| 46 | 8.599936 | 603103 | 606247 | 609369 | 612469 | 615547 | 618603 | 621638 | 14 |
| 47 | 8.599989 | 603155 | 606299 | 609421 | 612520 | 615598 | 618653 | 621688 | 13 |
| 48 | 8.600042 | 603208 | 606352 | 609473 | 612572 | 615649 | 618704 | 621738 | 12 |
| 49 | 8.600095 | 603261 | 606404 | 609525 | 612623 | 615700 | 618755 | 621789 | 11 |
| 50 | 8.600147 | 603313 | 606456 | 609576 | 612675 | 615751 | 618806 | 621839 | 10 |
| 51 | 8.600200 | 603366 | 606508 | 609628 | 612726 | 615802 | 618856 | 621890 | 9 |
| 52 | 8.600253 | 603418 | 606560 | 609680 | 612778 | 615853 | 618907 | 621940 | 8 |
| 53 | 8.600306 | 603471 | 606613 | 609732 | 612829 | 615904 | 618958 | 621990 | 7 |
| 54 | 8.600359 | 603523 | 606665 | 609784 | 612880 | 615955 | 619009 | 622041 | 6 |
| 55 | 8.600412 | 603576 | 606717 | 609835 | 612932 | 616006 | 619059 | 622091 | 5 |
| 56 | 8.600465 | 603628 | 606769 | 609887 | 612983 | 616057 | 619110 | 622141 | 4 |
| 57 | 8.600518 | 603681 | 606821 | 609939 | 613035 | 616108 | 619161 | 622192 | 3 |
| 58 | 8.600571 | 603734 | 606873 | 609991 | 613086 | 616159 | 619211 | 622242 | 2 |
| 59 | 8.600624 | 603786 | 606926 | 610043 | 613137 | 616211 | 619262 | 622292 | 1 |
| 60 | 8.600677 | 603839 | 606978 | 610094 | 613189 | 616262 | 619313 | 622343 | 0 |
| " | 43' | 42' | 41' | 40' | 39' | 38' | 37' | 36' | " |

| " | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.621962 | 624965 | 627948 | 630911 | 633854 | 636776 | 639680 | 642563 | 60 |
| 1 | 8.622012 | 625015 | 627998 | 630960 | 633903 | 636825 | 639728 | 642611 | 59 |
| 2 | 8.622062 | 625065 | 628047 | 631010 | 633951 | 636873 | 639776 | 642659 | 58 |
| 3 | 8.622112 | 625115 | 628097 | 631059 | 634000 | 636922 | 639824 | 642707 | 57 |
| 4 | 8.622162 | 625165 | 628147 | 631108 | 634049 | 636971 | 639872 | 642755 | 56 |
| 5 | 8.622213 | 625215 | 628196 | 631157 | 634098 | 637019 | 639921 | 642803 | 55 |
| 6 | 8.622263 | 625265 | 628246 | 631206 | 634147 | 637068 | 639969 | 642851 | 54 |
| 7 | 8.622313 | 625314 | 628295 | 631255 | 634196 | 637116 | 640017 | 642899 | 53 |
| 8 | 8.622363 | 625364 | 628345 | 631305 | 634245 | 637165 | 640065 | 642946 | 52 |
| 9 | 8.622413 | 625414 | 628394 | 631354 | 634293 | 637213 | 640113 | 642994 | 51 |
| 10 | 8.622464 | 625464 | 628444 | 631403 | 634342 | 637262 | 640162 | 643042 | 50 |
| 11 | 8.622514 | 625514 | 628493 | 631452 | 634391 | 637310 | 640210 | 643090 | 49 |
| 12 | 8.622564 | 625564 | 628543 | 631501 | 634440 | 637359 | 640258 | 643138 | 48 |
| 13 | 8.622614 | 625613 | 628592 | 631550 | 634489 | 637407 | 640306 | 643186 | 47 |
| 14 | 8.622664 | 625663 | 628642 | 631599 | 634537 | 637456 | 640354 | 643234 | 46 |
| 15 | 8.622714 | 625713 | 628691 | 631649 | 634586 | 637504 | 640402 | 643281 | 45 |
| 16 | 8.622765 | 625763 | 628740 | 631698 | 634635 | 637552 | 640450 | 643329 | 44 |
| 17 | 8.622815 | 625813 | 628790 | 631747 | 634684 | 637601 | 640499 | 643377 | 43 |
| 18 | 8.622865 | 625862 | 628839 | 631796 | 634733 | 637649 | 640547 | 643425 | 42 |
| 19 | 8.622915 | 625912 | 628889 | 631845 | 634781 | 637698 | 640595 | 643473 | 41 |
| 20 | 8.622965 | 625962 | 628938 | 631894 | 634830 | 637746 | 640643 | 643520 | 40 |
| 21 | 8.623015 | 626012 | 628988 | 631943 | 634879 | 637795 | 640691 | 643568 | 39 |
| 22 | 8.623065 | 626062 | 629037 | 631992 | 634928 | 637843 | 640739 | 643616 | 38 |
| 23 | 8.623115 | 626111 | 629087 | 632041 | 634976 | 637892 | 640787 | 643664 | 37 |
| 24 | 8.623166 | 626161 | 629136 | 632091 | 635025 | 637940 | 640835 | 643712 | 36 |
| 25 | 8.623216 | 626211 | 629185 | 632140 | 635074 | 637988 | 640883 | 643759 | 35 |
| 26 | 8.623266 | 626261 | 629235 | 632189 | 635123 | 638037 | 640932 | 643807 | 34 |
| 27 | 8.623316 | 626310 | 629284 | 632238 | 635171 | 638085 | 640980 | 643855 | 33 |
| 28 | 8.623366 | 626360 | 629334 | 632287 | 635220 | 638134 | 641028 | 643903 | 32 |
| 29 | 8.623416 | 626410 | 629383 | 632336 | 635269 | 638182 | 641076 | 643950 | 31 |
| 30 | 8.623466 | 626459 | 629432 | 632385 | 635317 | 638230 | 641124 | 643998 | 30 |
| 31 | 8.623516 | 626509 | 629482 | 632434 | 635366 | 638279 | 641172 | 644046 | 29 |
| 32 | 8.623566 | 626559 | 629531 | 632483 | 635415 | 638327 | 641220 | 644094 | 28 |
| 33 | 8.623616 | 626609 | 629580 | 632532 | 635464 | 638376 | 641268 | 644141 | 27 |
| 34 | 8.623666 | 626658 | 629630 | 632581 | 635512 | 638424 | 641316 | 644189 | 26 |
| 35 | 8.623716 | 626708 | 629679 | 632630 | 635561 | 638472 | 641364 | 644237 | 25 |
| 36 | 8.623766 | 626758 | 629728 | 632679 | 635610 | 638521 | 641412 | 644285 | 24 |
| 37 | 8.623816 | 626807 | 629778 | 632728 | 635658 | 638569 | 641460 | 644332 | 23 |
| 38 | 8.623866 | 626857 | 629827 | 632777 | 635707 | 638617 | 641508 | 644380 | 22 |
| 39 | 8.623916 | 626907 | 629876 | 632826 | 635756 | 638666 | 641556 | 644428 | 21 |
| 40 | 8.623966 | 626956 | 629926 | 632875 | 635804 | 638714 | 641604 | 644475 | 20 |
| 41 | 8.624016 | 627006 | 629975 | 632924 | 635853 | 638762 | 641652 | 644523 | 19 |
| 42 | 8.624066 | 627056 | 630024 | 632973 | 635902 | 638811 | 641700 | 644571 | 18 |
| 43 | 8.624116 | 627105 | 630074 | 633022 | 635950 | 638859 | 641748 | 644618 | 17 |
| 44 | 8.624166 | 627155 | 630123 | 633071 | 635999 | 638907 | 641796 | 644666 | 16 |
| 45 | 8.624216 | 627205 | 630172 | 633120 | 636048 | 638956 | 641844 | 644714 | 15 |
| 46 | 8.624266 | 627254 | 630222 | 633169 | 636096 | 639004 | 641892 | 644761 | 14 |
| 47 | 8.624316 | 627304 | 630271 | 633218 | 636145 | 639052 | 641940 | 644809 | 13 |
| 48 | 8.624366 | 627353 | 630320 | 633267 | 636193 | 639100 | 641988 | 644857 | 12 |
| 49 | 8.624416 | 627403 | 630369 | 633316 | 636242 | 639149 | 642036 | 644904 | 11 |
| 50 | 8.624466 | 627453 | 630419 | 633365 | 636291 | 639197 | 642084 | 644952 | 10 |
| 51 | 8.624516 | 627502 | 630468 | 633414 | 636339 | 639245 | 642132 | 645000 | 9 |
| 52 | 8.624566 | 627552 | 630517 | 633462 | 636388 | 639294 | 642180 | 645047 | 8 |
| 53 | 8.624616 | 627601 | 630566 | 633511 | 636436 | 639342 | 642228 | 645095 | 7 |
| 54 | 8.624666 | 627651 | 630616 | 633560 | 636485 | 639390 | 642276 | 645143 | 6 |
| 55 | 8.624716 | 627701 | 630665 | 633609 | 636534 | 639438 | 642324 | 645190 | 5 |
| 56 | 8.624766 | 627750 | 630714 | 633658 | 636582 | 639487 | 642372 | 645238 | 4 |
| 57 | 8.624816 | 627800 | 630763 | 633707 | 636631 | 639535 | 642420 | 645285 | 3 |
| 58 | 8.624866 | 627849 | 630813 | 633756 | 636679 | 639583 | 642468 | 645333 | 2 |
| 59 | 8.624915 | 627899 | 630862 | 633805 | 636728 | 639631 | 642515 | 645381 | 1 |
| 60 | 8.624965 | 627948 | 630911 | 633854 | 636776 | 639680 | 642563 | 645428 | 0 |
| " | 35' | 34' | 33' | 32' | 31' | 30' | 29' | 28' | " |

| " | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.622343 | 625352 | 628340 | 631308 | 634256 | 637184 | 640093 | 642982 | 60 |
| 1 | 8.622393 | 625402 | 628390 | 631358 | 634305 | 637233 | 640141 | 643030 | 59 |
| 2 | 8.622443 | 625452 | 628439 | 631407 | 634354 | 637282 | 640190 | 643078 | 58 |
| 3 | 8.622494 | 625502 | 628489 | 631456 | 634403 | 637330 | 640238 | 643126 | 57 |
| 4 | 8.622544 | 625552 | 628539 | 631505 | 634452 | 637379 | 640286 | 643174 | 56 |
| 5 | 8.622594 | 625602 | 628588 | 631555 | 634501 | 637428 | 640335 | 643222 | 55 |
| 6 | 8.622645 | 625652 | 628638 | 631604 | 634550 | 637476 | 640383 | 643270 | 54 |
| 7 | 8.622695 | 625701 | 628688 | 631653 | 634599 | 637525 | 640431 | 643318 | 53 |
| 8 | 8.622745 | 625751 | 628737 | 631702 | 634648 | 637573 | 640479 | 643366 | 52 |
| 9 | 8.622795 | 625801 | 628787 | 631752 | 634697 | 637622 | 640528 | 643414 | 51 |
| 10 | 8.622846 | 625851 | 628836 | 631801 | 634746 | 637671 | 640576 | 643462 | 50 |
| 11 | 8.622896 | 625901 | 628886 | 631850 | 634795 | 637719 | 640624 | 643510 | 49 |
| 12 | 8.622946 | 625951 | 628935 | 631899 | 634843 | 637768 | 640673 | 643558 | 48 |
| 13 | 8.622996 | 626001 | 628985 | 631949 | 634892 | 637816 | 640721 | 643606 | 47 |
| 14 | 8.623047 | 626051 | 629035 | 631998 | 634941 | 637865 | 640769 | 643654 | 46 |
| 15 | 8.623097 | 626101 | 629084 | 632047 | 634990 | 637913 | 640817 | 643702 | 45 |
| 16 | 8.623147 | 626151 | 629134 | 632096 | 635039 | 637962 | 640865 | 643750 | 44 |
| 17 | 8.623197 | 626201 | 629183 | 632146 | 635088 | 638011 | 640914 | 643798 | 43 |
| 18 | 8.623248 | 626250 | 629233 | 632195 | 635137 | 638059 | 640962 | 643846 | 42 |
| 19 | 8.623298 | 626300 | 629282 | 632244 | 635186 | 638108 | 641010 | 643893 | 41 |
| 20 | 8.623348 | 626350 | 629332 | 632293 | 635235 | 638156 | 641058 | 643941 | 40 |
| 21 | 8.623398 | 626400 | 629381 | 632342 | 635283 | 638205 | 641107 | 643989 | 39 |
| 22 | 8.623448 | 626450 | 629431 | 632392 | 635332 | 638253 | 641155 | 644037 | 38 |
| 23 | 8.623499 | 626500 | 629480 | 632441 | 635381 | 638302 | 641203 | 644085 | 37 |
| 24 | 8.623549 | 626550 | 629530 | 632490 | 635430 | 638350 | 641251 | 644133 | 36 |
| 25 | 8.623599 | 626599 | 629579 | 632539 | 635479 | 638399 | 641299 | 644181 | 35 |
| 26 | 8.623649 | 626649 | 629629 | 632588 | 635528 | 638447 | 641348 | 644229 | 34 |
| 27 | 8.623699 | 626699 | 629678 | 632637 | 635576 | 638496 | 641396 | 644276 | 33 |
| 28 | 8.623750 | 626749 | 629728 | 632686 | 635625 | 638544 | 641444 | 644324 | 32 |
| 29 | 8.623800 | 626799 | 629777 | 632736 | 635674 | 638593 | 641492 | 644372 | 31 |
| 30 | 8.623850 | 626849 | 629827 | 632785 | 635723 | 638641 | 641540 | 644420 | 30 |
| 31 | 8.623900 | 626898 | 629876 | 632834 | 635772 | 638690 | 641588 | 644468 | 29 |
| 32 | 8.623950 | 626948 | 629926 | 632883 | 635820 | 638738 | 641636 | 644516 | 28 |
| 33 | 8.624000 | 626998 | 629975 | 632932 | 635869 | 638787 | 641685 | 644564 | 27 |
| 34 | 8.624050 | 627048 | 630025 | 632981 | 635918 | 638835 | 641733 | 644611 | 26 |
| 35 | 8.624101 | 627098 | 630074 | 633030 | 635967 | 638884 | 641781 | 644659 | 25 |
| 36 | 8.624151 | 627147 | 630123 | 633079 | 636016 | 638932 | 641829 | 644707 | 24 |
| 37 | 8.624201 | 627197 | 630173 | 633129 | 636064 | 638980 | 641877 | 644755 | 23 |
| 38 | 8.624251 | 627247 | 630222 | 633178 | 636113 | 639029 | 641925 | 644803 | 22 |
| 39 | 8.624301 | 627297 | 630272 | 633227 | 636162 | 639077 | 641973 | 644850 | 21 |
| 40 | 8.624351 | 627346 | 630321 | 633276 | 636211 | 639126 | 642021 | 644898 | 20 |
| 41 | 8.624401 | 627396 | 630371 | 633325 | 636259 | 639174 | 642070 | 644946 | 19 |
| 42 | 8.624451 | 627446 | 630420 | 633374 | 636308 | 639223 | 642118 | 644994 | 18 |
| 43 | 8.624501 | 627496 | 630469 | 633423 | 636357 | 639271 | 642166 | 645041 | 17 |
| 44 | 8.624551 | 627545 | 630519 | 633472 | 636406 | 639319 | 642214 | 645089 | 16 |
| 45 | 8.624601 | 627595 | 630568 | 633521 | 636454 | 639368 | 642262 | 645137 | 15 |
| 46 | 8.624652 | 627645 | 630618 | 633570 | 636503 | 639416 | 642310 | 645185 | 14 |
| 47 | 8.624702 | 627694 | 630667 | 633619 | 636552 | 639465 | 642358 | 645233 | 13 |
| 48 | 8.624752 | 627744 | 630716 | 633668 | 636600 | 639513 | 642406 | 645280 | 12 |
| 49 | 8.624802 | 627794 | 630766 | 633717 | 636649 | 639561 | 642454 | 645328 | 11 |
| 50 | 8.624852 | 627844 | 630815 | 633766 | 636698 | 639610 | 642502 | 645376 | 10 |
| 51 | 8.624902 | 627893 | 630864 | 633815 | 636746 | 639658 | 642550 | 645423 | 9 |
| 52 | 8.624952 | 627943 | 630914 | 633864 | 636795 | 639706 | 642598 | 645471 | 8 |
| 53 | 8.625002 | 627993 | 630963 | 633913 | 636844 | 639755 | 642646 | 645519 | 7 |
| 54 | 8.625052 | 628042 | 631012 | 633962 | 636893 | 639803 | 642694 | 645567 | 6 |
| 55 | 8.625102 | 628092 | 631062 | 634011 | 636941 | 639851 | 642742 | 645614 | 5 |
| 56 | 8.625152 | 628142 | 631111 | 634060 | 636990 | 639900 | 642790 | 645662 | 4 |
| 57 | 8.625202 | 628192 | 631160 | 634109 | 637039 | 639948 | 642838 | 645710 | 3 |
| 58 | 8.625252 | 628242 | 631210 | 634158 | 637087 | 639996 | 642886 | 645757 | 2 |
| 59 | 8.625302 | 628291 | 631259 | 634207 | 637136 | 640045 | 642934 | 645805 | 1 |
| 60 | 8.625352 | 628340 | 631308 | 634256 | 637184 | 640093 | 642982 | 645853 | 0 |
| " | 35' | 34' | 33' | 32' | 31' | 30' | 29' | 28' | " |

| " | 32' | 33' | 34' | 35' | 36' | 37' | 38' | 39' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.645428 | 648274 | 651102 | 653911 | 656702 | 659475 | 662230 | 664968 | 60 |
| 1 | 8.645476 | 648321 | 651149 | 653957 | 656748 | 659521 | 662276 | 665014 | 59 |
| 2 | 8.645523 | 648369 | 651196 | 654004 | 656794 | 659567 | 662322 | 665059 | 58 |
| 3 | 8.645571 | 648416 | 651242 | 654051 | 656841 | 659613 | 662368 | 665105 | 57 |
| 4 | 8.645619 | 648463 | 651289 | 654097 | 656887 | 659659 | 662413 | 665150 | 56 |
| 5 | 8.645666 | 648510 | 651336 | 654144 | 656933 | 659705 | 662459 | 665196 | 55 |
| 6 | 8.645714 | 648558 | 651383 | 654191 | 656980 | 659751 | 662505 | 665241 | 54 |
| 7 | 8.645761 | 648605 | 651430 | 654237 | 657026 | 659797 | 662551 | 665287 | 53 |
| 8 | 8.645809 | 648652 | 651477 | 654284 | 657072 | 659843 | 662596 | 665332 | 52 |
| 9 | 8.645856 | 648699 | 651524 | 654330 | 657119 | 659889 | 662642 | 665378 | 51 |
| 10 | 8.645904 | 648747 | 651571 | 654377 | 657165 | 659935 | 662688 | 665423 | 50 |
| 11 | 8.645951 | 648794 | 651618 | 654424 | 657211 | 659981 | 662734 | 665469 | 49 |
| 12 | 8.645999 | 648841 | 651665 | 654470 | 657258 | 660027 | 662779 | 665514 | 48 |
| 13 | 8.646046 | 648888 | 651712 | 654517 | 657304 | 660073 | 662825 | 665559 | 47 |
| 14 | 8.646094 | 648936 | 651759 | 654564 | 657350 | 660119 | 662871 | 665605 | 46 |
| 15 | 8.646141 | 648983 | 651806 | 654610 | 657397 | 660165 | 662916 | 665650 | 45 |
| 16 | 8.646189 | 649030 | 651852 | 654657 | 657443 | 660211 | 662962 | 665696 | 44 |
| 17 | 8.646236 | 649077 | 651899 | 654703 | 657489 | 660257 | 663008 | 665741 | 43 |
| 18 | 8.646284 | 649124 | 651946 | 654750 | 657535 | 660303 | 663054 | 665786 | 42 |
| 19 | 8.646331 | 649172 | 651993 | 654796 | 657582 | 660349 | 663099 | 665832 | 41 |
| 20 | 8.646379 | 649219 | 652040 | 654843 | 657628 | 660395 | 663145 | 665877 | 40 |
| 21 | 8.646426 | 649266 | 652087 | 654890 | 657674 | 660441 | 663191 | 665923 | 39 |
| 22 | 8.646474 | 649313 | 652134 | 654936 | 657721 | 660487 | 663236 | 665968 | 38 |
| 23 | 8.646521 | 649360 | 652181 | 654983 | 657767 | 660533 | 663282 | 666013 | 37 |
| 24 | 8.646569 | 649407 | 652227 | 655029 | 657813 | 660579 | 663328 | 666059 | 36 |
| 25 | 8.646616 | 649454 | 652274 | 655076 | 657859 | 660625 | 663373 | 666104 | 35 |
| 26 | 8.646664 | 649502 | 652321 | 655122 | 657906 | 660671 | 663419 | 666150 | 34 |
| 27 | 8.646711 | 649549 | 652368 | 655169 | 657952 | 660717 | 663465 | 666195 | 33 |
| 28 | 8.646759 | 649596 | 652415 | 655215 | 657998 | 660763 | 663510 | 666240 | 32 |
| 29 | 8.646806 | 649643 | 652462 | 655262 | 658044 | 660809 | 663556 | 666286 | 31 |
| 30 | 8.646854 | 649690 | 652509 | 655309 | 658090 | 660855 | 663602 | 666331 | 30 |
| 31 | 8.646901 | 649737 | 652555 | 655355 | 658137 | 660901 | 663647 | 666376 | 29 |
| 32 | 8.646948 | 649784 | 652602 | 655401 | 658183 | 660947 | 663693 | 666422 | 28 |
| 33 | 8.646996 | 649832 | 652649 | 655448 | 658229 | 660992 | 663738 | 666467 | 27 |
| 34 | 8.647043 | 649879 | 652696 | 655494 | 658275 | 661038 | 663784 | 666512 | 26 |
| 35 | 8.647091 | 649926 | 652742 | 655541 | 658321 | 661084 | 663830 | 666558 | 25 |
| 36 | 8.647138 | 649973 | 652789 | 655587 | 658368 | 661130 | 663875 | 666603 | 24 |
| 37 | 8.647185 | 650020 | 652836 | 655634 | 658414 | 661176 | 663921 | 666648 | 23 |
| 38 | 8.647233 | 650067 | 652883 | 655680 | 658460 | 661222 | 663966 | 666694 | 22 |
| 39 | 8.647280 | 650114 | 652930 | 655727 | 658506 | 661268 | 664012 | 666739 | 21 |
| 40 | 8.647328 | 650161 | 652976 | 655773 | 658552 | 661314 | 664058 | 666784 | 20 |
| 41 | 8.647375 | 650208 | 653023 | 655820 | 658599 | 661360 | 664103 | 666830 | 19 |
| 42 | 8.647422 | 650255 | 653070 | 655866 | 658645 | 661405 | 664149 | 666875 | 18 |
| 43 | 8.647470 | 650302 | 653117 | 655913 | 658691 | 661451 | 664194 | 666920 | 17 |
| 44 | 8.647517 | 650349 | 653163 | 655959 | 658737 | 661497 | 664240 | 666965 | 16 |
| 45 | 8.647564 | 650396 | 653210 | 656006 | 658783 | 661543 | 664285 | 667011 | 15 |
| 46 | 8.647612 | 650443 | 653257 | 656052 | 658829 | 661589 | 664331 | 667056 | 14 |
| 47 | 8.647659 | 650491 | 653304 | 656098 | 658875 | 661635 | 664377 | 667101 | 13 |
| 48 | 8.647706 | 650538 | 653350 | 656145 | 658921 | 661681 | 664422 | 667146 | 12 |
| 49 | 8.647754 | 650585 | 653397 | 656191 | 658968 | 661726 | 664468 | 667192 | 11 |
| 50 | 8.647801 | 650632 | 653444 | 656238 | 659014 | 661772 | 664513 | 667237 | 10 |
| 51 | 8.647848 | 650679 | 653491 | 656284 | 659060 | 661818 | 664559 | 667282 | 9 |
| 52 | 8.647896 | 650726 | 653537 | 656331 | 659106 | 661864 | 664604 | 667327 | 8 |
| 53 | 8.647943 | 650773 | 653584 | 656377 | 659152 | 661910 | 664650 | 667373 | 7 |
| 54 | 8.647990 | 650820 | 653631 | 656423 | 659198 | 661956 | 664695 | 667418 | 6 |
| 55 | 8.648038 | 650867 | 653677 | 656470 | 659244 | 662001 | 664741 | 667463 | 5 |
| 56 | 8.648085 | 650914 | 653724 | 656516 | 659290 | 662047 | 664786 | 667508 | 4 |
| 57 | 8.648132 | 650961 | 653771 | 656563 | 659337 | 662093 | 664832 | 667554 | 3 |
| 58 | 8.648180 | 651008 | 653817 | 656609 | 659383 | 662139 | 664877 | 667599 | 2 |
| 59 | 8.648227 | 651055 | 653864 | 656655 | 659429 | 662185 | 664923 | 667644 | 1 |
| 60 | 8.648274 | 651102 | 653911 | 656702 | 659475 | 662230 | 664968 | 667689 | 0 |
| " | 27' | 26' | 25' | 24' | 23' | 22' | 21' | 20' | " |

| " | 32' | 33' | 34' | 35' | 36' | 37' | 38' | 39' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.645853 | 648704 | 651537 | 654352 | 657149 | 659928 | 662689 | 665433 | 60 |
| 1 | 8.645901 | 648752 | 651585 | 654399 | 657195 | 659974 | 662735 | 665479 | 59 |
| 2 | 8.645948 | 648799 | 651632 | 654446 | 657242 | 660020 | 662781 | 665524 | 58 |
| 3 | 8.645996 | 648847 | 651679 | 654493 | 657288 | 660066 | 662827 | 665570 | 57 |
| 4 | 8.646044 | 648894 | 651726 | 654539 | 657335 | 660112 | 662873 | 665615 | 56 |
| 5 | 8.646091 | 648941 | 651773 | 654586 | 657381 | 660159 | 662918 | 665661 | 55 |
| 6 | 8.646139 | 648989 | 651820 | 654633 | 657428 | 660205 | 662964 | 665707 | 54 |
| 7 | 8.646186 | 649036 | 651867 | 654679 | 657474 | 660251 | 663010 | 665752 | 53 |
| 8 | 8.646234 | 649083 | 651914 | 654726 | 657521 | 660297 | 663056 | 665798 | 52 |
| 9 | 8.646282 | 649131 | 651961 | 654773 | 657567 | 660343 | 663102 | 665843 | 51 |
| 10 | 8.646329 | 649178 | 652008 | 654820 | 657613 | 660389 | 663148 | 665889 | 50 |
| 11 | 8.646377 | 649225 | 652055 | 654866 | 657660 | 660435 | 663193 | 665934 | 49 |
| 12 | 8.646425 | 649273 | 652102 | 654913 | 657706 | 660482 | 663239 | 665980 | 48 |
| 13 | 8.646472 | 649320 | 652149 | 654960 | 657753 | 660528 | 663285 | 666025 | 47 |
| 14 | 8.646520 | 649367 | 652196 | 655006 | 657799 | 660574 | 663331 | 666071 | 46 |
| 15 | 8.646567 | 649414 | 652243 | 655053 | 657845 | 660620 | 663377 | 666116 | 45 |
| 16 | 8.646615 | 649462 | 652290 | 655100 | 657892 | 660666 | 663423 | 666162 | 44 |
| 17 | 8.646663 | 649509 | 652337 | 655146 | 657938 | 660712 | 663468 | 666207 | 43 |
| 18 | 8.646710 | 649556 | 652384 | 655193 | 657984 | 660758 | 663514 | 666253 | 42 |
| 19 | 8.646758 | 649604 | 652431 | 655240 | 658031 | 660804 | 663560 | 666298 | 41 |
| 20 | 8.646806 | 649651 | 652478 | 655286 | 658077 | 660850 | 663606 | 666344 | 40 |
| 21 | 8.646853 | 649698 | 652525 | 655333 | 658124 | 660896 | 663652 | 666390 | 39 |
| 22 | 8.646901 | 649745 | 652572 | 655380 | 658170 | 660942 | 663697 | 666435 | 38 |
| 23 | 8.646948 | 649793 | 652619 | 655426 | 658216 | 660988 | 663743 | 666480 | 37 |
| 24 | 8.646996 | 649840 | 652666 | 655473 | 658263 | 661034 | 663789 | 666526 | 36 |
| 25 | 8.647043 | 649887 | 652713 | 655520 | 658309 | 661081 | 663835 | 666571 | 35 |
| 26 | 8.647091 | 649934 | 652759 | 655566 | 658355 | 661127 | 663880 | 666617 | 34 |
| 27 | 8.647138 | 649982 | 652806 | 655613 | 658402 | 661173 | 663926 | 666662 | 33 |
| 28 | 8.647186 | 650029 | 652853 | 655660 | 658448 | 661219 | 663972 | 666708 | 32 |
| 29 | 8.647233 | 650076 | 652900 | 655706 | 658494 | 661265 | 664018 | 666753 | 31 |
| 30 | 8.647281 | 650123 | 652947 | 655753 | 658541 | 661311 | 664064 | 666799 | 30 |
| 31 | 8.647328 | 650170 | 652994 | 655799 | 658587 | 661357 | 664110 | 666844 | 29 |
| 32 | 8.647376 | 650218 | 653041 | 655846 | 658633 | 661403 | 664155 | 666889 | 28 |
| 33 | 8.647424 | 650265 | 653088 | 655893 | 658680 | 661449 | 664200 | 666935 | 27 |
| 34 | 8.647471 | 650312 | 653135 | 655939 | 658726 | 661495 | 664246 | 666980 | 26 |
| 35 | 8.647519 | 650359 | 653182 | 655986 | 658772 | 661541 | 664292 | 667026 | 25 |
| 36 | 8.647566 | 650406 | 653229 | 656032 | 658818 | 661587 | 664338 | 667071 | 24 |
| 37 | 8.647614 | 650454 | 653275 | 656079 | 658865 | 661633 | 664383 | 667117 | 23 |
| 38 | 8.647661 | 650501 | 653322 | 656126 | 658911 | 661679 | 664429 | 667162 | 22 |
| 39 | 8.647709 | 650548 | 653369 | 656172 | 658957 | 661725 | 664475 | 667207 | 21 |
| 40 | 8.647756 | 650595 | 653416 | 656219 | 659004 | 661771 | 664521 | 667253 | 20 |
| 41 | 8.647804 | 650642 | 653463 | 656265 | 659050 | 661817 | 664567 | 667298 | 19 |
| 42 | 8.647851 | 650689 | 653510 | 656312 | 659096 | 661863 | 664612 | 667344 | 18 |
| 43 | 8.647898 | 650737 | 653557 | 656358 | 659142 | 661909 | 664657 | 667389 | 17 |
| 44 | 8.647946 | 650784 | 653603 | 656405 | 659189 | 661955 | 664703 | 667434 | 16 |
| 45 | 8.647993 | 650831 | 653650 | 656451 | 659235 | 662000 | 664749 | 667480 | 15 |
| 46 | 8.648041 | 650878 | 653697 | 656498 | 659281 | 662046 | 664794 | 667525 | 14 |
| 47 | 8.648088 | 650925 | 653744 | 656545 | 659327 | 662092 | 664840 | 667570 | 13 |
| 48 | 8.648136 | 650972 | 653791 | 656591 | 659373 | 662138 | 664886 | 667616 | 12 |
| 49 | 8.648183 | 651019 | 653838 | 656638 | 659420 | 662184 | 664931 | 667661 | 11 |
| 50 | 8.648230 | 651067 | 653884 | 656684 | 659466 | 662230 | 664977 | 667707 | 10 |
| 51 | 8.648278 | 651114 | 653931 | 656731 | 659512 | 662276 | 665023 | 667752 | 9 |
| 52 | 8.648325 | 651161 | 653978 | 656777 | 659558 | 662322 | 665068 | 667797 | 8 |
| 53 | 8.648373 | 651208 | 654025 | 656824 | 659605 | 662368 | 665114 | 667843 | 7 |
| 54 | 8.648420 | 651255 | 654072 | 656870 | 659651 | 662414 | 665159 | 667888 | 6 |
| 55 | 8.648468 | 651302 | 654118 | 656917 | 659697 | 662460 | 665205 | 667933 | 5 |
| 56 | 8.648515 | 651349 | 654165 | 656963 | 659743 | 662506 | 665251 | 667979 | 4 |
| 57 | 8.648562 | 651396 | 654212 | 657010 | 659789 | 662551 | 665296 | 668024 | 3 |
| 58 | 8.648610 | 651443 | 654259 | 657056 | 659836 | 662597 | 665342 | 668069 | 2 |
| 59 | 8.648657 | 651490 | 654305 | 657102 | 659882 | 662643 | 665387 | 668115 | 1 |
| 60 | 8.648704 | 651537 | 654352 | 657149 | 659928 | 662689 | 665433 | 668160 | 0 |
| " | 27' | 26' | 25' | 24' | 23' | 22' | 21' | 20' | " |

| " | 40' | 41' | 42' | 43' | 44' | 45' | 46' | 47' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.667689 | 670393 | 673080 | 675751 | 678405 | 681043 | 683665 | 686272 | 60 |
| 1 | 8.667735 | 670438 | 673125 | 675795 | 678449 | 681087 | 683709 | 686315 | 59 |
| 2 | 8.667780 | 670483 | 673170 | 675840 | 678493 | 681131 | 683753 | 686358 | 58 |
| 3 | 8.667825 | 670528 | 673214 | 675884 | 678538 | 681175 | 683796 | 686402 | 57 |
| 4 | 8.667870 | 670573 | 673259 | 675928 | 678582 | 681219 | 683840 | 686445 | 56 |
| 5 | 8.667915 | 670618 | 673304 | 675973 | 678626 | 681262 | 683883 | 686488 | 55 |
| 6 | 8.667960 | 670663 | 673348 | 676017 | 678670 | 681306 | 683927 | 686532 | 54 |
| 7 | 8.668006 | 670708 | 673393 | 676061 | 678714 | 681350 | 683970 | 686575 | 53 |
| 8 | 8.668051 | 670752 | 673437 | 676106 | 678758 | 681394 | 684014 | 686618 | 52 |
| 9 | 8.668096 | 670797 | 673482 | 676150 | 678802 | 681438 | 684057 | 686661 | 51 |
| 10 | 8.668141 | 670842 | 673527 | 676194 | 678846 | 681481 | 684101 | 686705 | 50 |
| 11 | 8.668186 | 670887 | 673571 | 676239 | 678890 | 681525 | 684144 | 686748 | 49 |
| 12 | 8.668231 | 670932 | 673616 | 676283 | 678934 | 681569 | 684188 | 686791 | 48 |
| 13 | 8.668277 | 670977 | 673660 | 676327 | 678978 | 681613 | 684231 | 686834 | 47 |
| 14 | 8.668322 | 671022 | 673705 | 676372 | 679022 | 681657 | 684275 | 686878 | 46 |
| 15 | 8.668367 | 671067 | 673750 | 676416 | 679066 | 681700 | 684318 | 686921 | 45 |
| 16 | 8.668412 | 671111 | 673794 | 676460 | 679110 | 681744 | 684362 | 686964 | 44 |
| 17 | 8.668457 | 671156 | 673839 | 676505 | 679154 | 681788 | 684405 | 687007 | 43 |
| 18 | 8.668502 | 671201 | 673883 | 676549 | 679198 | 681832 | 684449 | 687051 | 42 |
| 19 | 8.668547 | 671246 | 673928 | 676593 | 679242 | 681875 | 684492 | 687094 | 41 |
| 20 | 8.668592 | 671291 | 673972 | 676638 | 679286 | 681919 | 684536 | 687137 | 40 |
| 21 | 8.668638 | 671336 | 674017 | 676682 | 679330 | 681963 | 684579 | 687180 | 39 |
| 22 | 8.668683 | 671380 | 674062 | 676726 | 679374 | 682007 | 684623 | 687224 | 38 |
| 23 | 8.668728 | 671425 | 674106 | 676770 | 679418 | 682050 | 684666 | 687267 | 37 |
| 24 | 8.668773 | 671470 | 674151 | 676815 | 679462 | 682094 | 684710 | 687310 | 36 |
| 25 | 8.668818 | 671515 | 674195 | 676859 | 679506 | 682138 | 684753 | 687353 | 35 |
| 26 | 8.668863 | 671560 | 674240 | 676903 | 679550 | 682182 | 684797 | 687396 | 34 |
| 27 | 8.668908 | 671605 | 674284 | 676947 | 679594 | 682225 | 684840 | 687440 | 33 |
| 28 | 8.668953 | 671649 | 674329 | 676992 | 679638 | 682269 | 684884 | 687483 | 32 |
| 29 | 8.668998 | 671694 | 674373 | 677036 | 679682 | 682313 | 684927 | 687526 | 31 |
| 30 | 8.669043 | 671739 | 674418 | 677080 | 679726 | 682356 | 684971 | 687569 | 30 |
| 31 | 8.669088 | 671784 | 674462 | 677124 | 679770 | 682400 | 685014 | 687612 | 29 |
| 32 | 8.669133 | 671828 | 674507 | 677169 | 679814 | 682444 | 685057 | 687655 | 28 |
| 33 | 8.669179 | 671873 | 674551 | 677213 | 679858 | 682487 | 685101 | 687699 | 27 |
| 34 | 8.669224 | 671918 | 674596 | 677257 | 679902 | 682531 | 685144 | 687742 | 26 |
| 35 | 8.669269 | 671963 | 674640 | 677301 | 679946 | 682575 | 685188 | 687785 | 25 |
| 36 | 8.669314 | 672008 | 674685 | 677345 | 679990 | 682618 | 685231 | 687828 | 24 |
| 37 | 8.669359 | 672052 | 674729 | 677390 | 680034 | 682662 | 685275 | 687871 | 23 |
| 38 | 8.669404 | 672097 | 674774 | 677434 | 680078 | 682706 | 685318 | 687914 | 22 |
| 39 | 8.669449 | 672142 | 674818 | 677478 | 680122 | 682749 | 685361 | 687958 | 21 |
| 40 | 8.669494 | 672187 | 674863 | 677522 | 680166 | 682793 | 685405 | 688001 | 20 |
| 41 | 8.669539 | 672231 | 674907 | 677566 | 680210 | 682837 | 685448 | 688044 | 19 |
| 42 | 8.669584 | 672276 | 674952 | 677611 | 680254 | 682880 | 685492 | 688087 | 18 |
| 43 | 8.669629 | 672321 | 674996 | 677655 | 680297 | 682924 | 685535 | 688130 | 17 |
| 44 | 8.669674 | 672366 | 675040 | 677699 | 680341 | 682968 | 685578 | 688173 | 16 |
| 45 | 8.669719 | 672410 | 675085 | 677743 | 680385 | 683011 | 685622 | 688216 | 15 |
| 46 | 8.669764 | 672455 | 675129 | 677787 | 680429 | 683055 | 685665 | 688259 | 14 |
| 47 | 8.669809 | 672500 | 675174 | 677832 | 680473 | 683099 | 685708 | 688303 | 13 |
| 48 | 8.669854 | 672544 | 675218 | 677876 | 680517 | 683142 | 685752 | 688346 | 12 |
| 49 | 8.669899 | 672589 | 675263 | 677920 | 680561 | 683186 | 685795 | 688389 | 11 |
| 50 | 8.669944 | 672634 | 675307 | 677964 | 680605 | 683230 | 685838 | 688432 | 10 |
| 51 | 8.669989 | 672679 | 675351 | 678009 | 680649 | 683273 | 685882 | 688475 | 9 |
| 52 | 8.670034 | 672723 | 675396 | 678052 | 680692 | 683317 | 685925 | 688518 | 8 |
| 53 | 8.670079 | 672768 | 675440 | 678096 | 680736 | 683360 | 685968 | 688561 | 7 |
| 54 | 8.670124 | 672812 | 675485 | 678141 | 680780 | 683404 | 686012 | 688604 | 6 |
| 55 | 8.670169 | 672857 | 675529 | 678185 | 680824 | 683448 | 686055 | 688647 | 5 |
| 56 | 8.670213 | 672902 | 675573 | 678229 | 680868 | 683491 | 686098 | 688690 | 4 |
| 57 | 8.670258 | 672946 | 675618 | 678273 | 680912 | 683535 | 686142 | 688733 | 3 |
| 58 | 8.670303 | 672991 | 675662 | 678317 | 680956 | 683578 | 686185 | 688776 | 2 |
| 59 | 8.670348 | 673036 | 675707 | 678361 | 680999 | 683622 | 686228 | 688819 | 1 |
| 60 | 8.670393 | 673080 | 675751 | 678405 | 681043 | 683665 | 686272 | 688863 | 0 |
| " | 19' | 18' | 17' | 16' | 15' | 14' | 13' | 12' | " |

| " | 40' | 41' | 42' | 43' | 44' | 45' | 46' | 47' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.668160 | 670870 | 673563 | 676239 | 678900 | 681544 | 684172 | 686784 | 60 |
| 1 | 8.668205 | 670915 | 673608 | 676284 | 678944 | 681588 | 684216 | 686828 | 59 |
| 2 | 8.668250 | 670960 | 673652 | 676328 | 678988 | 681632 | 684259 | 686871 | 58 |
| 3 | 8.668296 | 671005 | 673697 | 676373 | 679032 | 681676 | 684303 | 686915 | 57 |
| 4 | 8.668341 | 671050 | 673742 | 676417 | 679076 | 681719 | 684347 | 686958 | 56 |
| 5 | 8.668386 | 671095 | 673786 | 676462 | 679121 | 681763 | 684390 | 687001 | 55 |
| 6 | 8.668432 | 671140 | 673831 | 676506 | 679165 | 681807 | 684434 | 687045 | 54 |
| 7 | 8.668477 | 671185 | 673876 | 676551 | 679209 | 681851 | 684478 | 687088 | 53 |
| 8 | 8.668522 | 671230 | 673921 | 676595 | 679253 | 681895 | 684521 | 687132 | 52 |
| 9 | 8.668567 | 671275 | 673965 | 676639 | 679297 | 681939 | 684565 | 687175 | 51 |
| 10 | 8.668613 | 671320 | 674010 | 676684 | 679341 | 681983 | 684608 | 687218 | 50 |
| 11 | 8.668658 | 671365 | 674055 | 676728 | 679386 | 682027 | 684652 | 687262 | 49 |
| 12 | 8.668703 | 671410 | 674099 | 676773 | 679430 | 682071 | 684696 | 687305 | 48 |
| 13 | 8.668748 | 671455 | 674144 | 676817 | 679474 | 682115 | 684739 | 687348 | 47 |
| 14 | 8.668794 | 671500 | 674189 | 676862 | 679518 | 682158 | 684783 | 687392 | 46 |
| 15 | 8.668839 | 671545 | 674233 | 676906 | 679562 | 682202 | 684827 | 687435 | 45 |
| 16 | 8.668884 | 671589 | 674278 | 676950 | 679606 | 682246 | 684870 | 687478 | 44 |
| 17 | 8.668929 | 671634 | 674323 | 676995 | 679650 | 682290 | 684914 | 687522 | 43 |
| 18 | 8.668975 | 671679 | 674367 | 677039 | 679695 | 682334 | 684957 | 687565 | 42 |
| 19 | 8.669020 | 671724 | 674412 | 677084 | 679739 | 682378 | 685001 | 687608 | 41 |
| 20 | 8.669065 | 671769 | 674457 | 677128 | 679783 | 682422 | 685044 | 687652 | 40 |
| 21 | 8.669110 | 671814 | 674501 | 677172 | 679827 | 682465 | 685088 | 687695 | 39 |
| 22 | 8.669155 | 671859 | 674546 | 677217 | 679871 | 682509 | 685132 | 687738 | 38 |
| 23 | 8.669201 | 671904 | 674591 | 677261 | 679915 | 682553 | 685175 | 687782 | 37 |
| 24 | 8.669246 | 671949 | 674635 | 677305 | 679959 | 682597 | 685219 | 687825 | 36 |
| 25 | 8.669291 | 671994 | 674680 | 677350 | 680003 | 682641 | 685262 | 687868 | 35 |
| 26 | 8.669336 | 672039 | 674725 | 677394 | 680047 | 682685 | 685306 | 687912 | 34 |
| 27 | 8.669381 | 672084 | 674769 | 677438 | 680091 | 682728 | 685349 | 687955 | 33 |
| 28 | 8.669427 | 672129 | 674814 | 677483 | 680136 | 682772 | 685393 | 687998 | 32 |
| 29 | 8.669472 | 672173 | 674859 | 677527 | 680180 | 682816 | 685437 | 688042 | 31 |
| 30 | 8.669517 | 672218 | 674903 | 677572 | 680224 | 682860 | 685480 | 688085 | 30 |
| 31 | 8.669562 | 672263 | 674948 | 677616 | 680268 | 682904 | 685524 | 688128 | 29 |
| 32 | 8.669607 | 672308 | 674992 | 677660 | 680312 | 682947 | 685567 | 688171 | 28 |
| 33 | 8.669652 | 672353 | 675037 | 677704 | 680356 | 682991 | 685611 | 688215 | 27 |
| 34 | 8.669697 | 672398 | 675082 | 677749 | 680400 | 683035 | 685654 | 688258 | 26 |
| 35 | 8.669743 | 672443 | 675126 | 677793 | 680444 | 683079 | 685698 | 688301 | 25 |
| 36 | 8.669788 | 672488 | 675171 | 677837 | 680488 | 683123 | 685741 | 688344 | 24 |
| 37 | 8.669833 | 672532 | 675215 | 677882 | 680532 | 683166 | 685785 | 688388 | 23 |
| 38 | 8.669878 | 672577 | 675260 | 677926 | 680576 | 683210 | 685828 | 688431 | 22 |
| 39 | 8.669923 | 672622 | 675304 | 677970 | 680620 | 683254 | 685872 | 688474 | 21 |
| 40 | 8.669968 | 672667 | 675349 | 678015 | 680664 | 683298 | 685915 | 688517 | 20 |
| 41 | 8.670013 | 672712 | 675394 | 678059 | 680708 | 683341 | 685959 | 688561 | 19 |
| 42 | 8.670058 | 672757 | 675438 | 678103 | 680752 | 683385 | 686002 | 688604 | 18 |
| 43 | 8.670104 | 672801 | 675483 | 678148 | 680796 | 683429 | 686046 | 688647 | 17 |
| 44 | 8.670149 | 672846 | 675527 | 678192 | 680840 | 683473 | 686089 | 688690 | 16 |
| 45 | 8.670194 | 672891 | 675572 | 678236 | 680884 | 683516 | 686133 | 688734 | 15 |
| 46 | 8.670239 | 672936 | 675616 | 678280 | 680928 | 683560 | 686176 | 688777 | 14 |
| 47 | 8.670284 | 672981 | 675661 | 678325 | 680972 | 683604 | 686220 | 688820 | 13 |
| 48 | 8.670329 | 673025 | 675705 | 678369 | 681016 | 683648 | 686263 | 688863 | 12 |
| 49 | 8.670374 | 673070 | 675750 | 678413 | 681060 | 683691 | 686307 | 688906 | 11 |
| 50 | 8.670419 | 673115 | 675794 | 678457 | 681104 | 683735 | 686350 | 688950 | 10 |
| 51 | 8.670464 | 673160 | 675839 | 678501 | 681148 | 683779 | 686394 | 688993 | 9 |
| 52 | 8.670509 | 673205 | 675883 | 678546 | 681192 | 683822 | 686437 | 689036 | 8 |
| 53 | 8.670554 | 673249 | 675928 | 678590 | 681236 | 683866 | 686480 | 689079 | 7 |
| 54 | 8.670599 | 673294 | 675972 | 678634 | 681280 | 683910 | 686524 | 689122 | 6 |
| 55 | 8.670644 | 673339 | 676017 | 678679 | 681324 | 683954 | 686567 | 689165 | 5 |
| 56 | 8.670689 | 673384 | 676061 | 678723 | 681368 | 683997 | 686611 | 689209 | 4 |
| 57 | 8.670735 | 673429 | 676106 | 678767 | 681412 | 684041 | 686654 | 689252 | 3 |
| 58 | 8.670780 | 673473 | 676150 | 678811 | 681456 | 684085 | 686698 | 689295 | 2 |
| 59 | 8.670825 | 673518 | 676195 | 678855 | 681500 | 684128 | 686741 | 689338 | 1 |
| 60 | 8.670870 | 673563 | 676239 | 678900 | 681544 | 684172 | 686784 | 689381 | 0 |
| " | 19' | 18' | 17' | 16' | 15' | 14' | 13' | 12' | " |

| " | 45' | 49' | 50' | 51' | 52' | 53' | 54' | 55' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.688863 | 691438 | 693998 | 696543 | 699073 | 701589 | 704090 | 706577 | 80 |
| 1 | 8.688906 | 691481 | 694041 | 696585 | 699115 | 701631 | 704131 | 706618 | 59 |
| 2 | 8.688949 | 691523 | 694083 | 696628 | 699157 | 701672 | 704173 | 706659 | 58 |
| 3 | 8.688992 | 691566 | 694126 | 696670 | 699199 | 701714 | 704215 | 706701 | 57 |
| 4 | 8.689035 | 691609 | 694168 | 696712 | 699242 | 701756 | 704256 | 706742 | 56 |
| 5 | 8.689078 | 691652 | 694211 | 696755 | 699284 | 701798 | 704298 | 706783 | 55 |
| 6 | 8.689121 | 691695 | 694253 | 696797 | 699326 | 701840 | 704339 | 706824 | 54 |
| 7 | 8.689164 | 691737 | 694296 | 696839 | 699368 | 701881 | 704381 | 706866 | 53 |
| 8 | 8.689207 | 691780 | 694338 | 696881 | 699410 | 701923 | 704422 | 706907 | 52 |
| 9 | 8.689250 | 691823 | 694381 | 696924 | 699452 | 701965 | 704464 | 706948 | 51 |
| 10 | 8.689293 | 691866 | 694423 | 696966 | 699494 | 702007 | 704505 | 706990 | 50 |
| 11 | 8.689336 | 691908 | 694466 | 697008 | 699536 | 702048 | 704547 | 707031 | 49 |
| 12 | 8.689379 | 691951 | 694508 | 697050 | 699578 | 702090 | 704588 | 707072 | 48 |
| 13 | 8.689422 | 691994 | 694551 | 697093 | 699620 | 702132 | 704630 | 707113 | 47 |
| 14 | 8.689465 | 692037 | 694593 | 697135 | 699662 | 702174 | 704671 | 707155 | 46 |
| 15 | 8.689508 | 692079 | 694636 | 697177 | 699704 | 702216 | 704713 | 707196 | 45 |
| 16 | 8.689551 | 692122 | 694678 | 697219 | 699746 | 702257 | 704754 | 707237 | 44 |
| 17 | 8.689594 | 692165 | 694721 | 697262 | 699788 | 702299 | 704796 | 707279 | 43 |
| 18 | 8.689637 | 692208 | 694763 | 697304 | 699830 | 702341 | 704837 | 707320 | 42 |
| 19 | 8.689680 | 692250 | 694806 | 697346 | 699872 | 702382 | 704879 | 707361 | 41 |
| 20 | 8.689723 | 692293 | 694848 | 697388 | 699913 | 702424 | 704920 | 707402 | 40 |
| 21 | 8.689766 | 692336 | 694891 | 697430 | 699955 | 702466 | 704962 | 707444 | 39 |
| 22 | 8.689809 | 692378 | 694933 | 697473 | 699997 | 702508 | 705003 | 707485 | 38 |
| 23 | 8.689852 | 692421 | 694975 | 697515 | 700039 | 702549 | 705045 | 707526 | 37 |
| 24 | 8.689895 | 692464 | 695018 | 697557 | 700081 | 702591 | 705086 | 707567 | 36 |
| 25 | 8.689937 | 692506 | 695060 | 697599 | 700123 | 702633 | 705128 | 707608 | 35 |
| 26 | 8.689980 | 692549 | 695103 | 697641 | 700165 | 702674 | 705169 | 707650 | 34 |
| 27 | 8.690023 | 692592 | 695145 | 697684 | 700207 | 702716 | 705211 | 707691 | 33 |
| 28 | 8.690066 | 692634 | 695188 | 697726 | 700249 | 702758 | 705252 | 707732 | 32 |
| 29 | 8.690109 | 692677 | 695230 | 697768 | 700291 | 702800 | 705294 | 707773 | 31 |
| 30 | 8.690152 | 692720 | 695272 | 697810 | 700333 | 702841 | 705335 | 707815 | 30 |
| 31 | 8.690195 | 692763 | 695315 | 697852 | 700375 | 702883 | 705376 | 707856 | 29 |
| 32 | 8.690238 | 692805 | 695357 | 697894 | 700417 | 702925 | 705418 | 707897 | 28 |
| 33 | 8.690281 | 692848 | 695400 | 697937 | 700459 | 702966 | 705459 | 707938 | 27 |
| 34 | 8.690324 | 692890 | 695442 | 697979 | 700501 | 703008 | 705501 | 707979 | 26 |
| 35 | 8.690367 | 692933 | 695484 | 698021 | 700543 | 703050 | 705542 | 708021 | 25 |
| 36 | 8.690410 | 692976 | 695527 | 698063 | 700584 | 703091 | 705584 | 708062 | 24 |
| 37 | 8.690452 | 693018 | 695569 | 698105 | 700626 | 703133 | 705625 | 708103 | 23 |
| 38 | 8.690495 | 693061 | 695612 | 698147 | 700668 | 703175 | 705666 | 708144 | 22 |
| 39 | 8.690538 | 693104 | 695654 | 698189 | 700710 | 703216 | 705708 | 708185 | 21 |
| 40 | 8.690581 | 693146 | 695696 | 698231 | 700752 | 703258 | 705749 | 708226 | 20 |
| 41 | 8.690624 | 693189 | 695738 | 698273 | 700794 | 703299 | 705791 | 708267 | 19 |
| 42 | 8.690667 | 693232 | 695781 | 698316 | 700836 | 703341 | 705832 | 708309 | 18 |
| 43 | 8.690710 | 693274 | 695824 | 698358 | 700878 | 703383 | 705873 | 708350 | 17 |
| 44 | 8.690753 | 693317 | 695866 | 698400 | 700920 | 703424 | 705915 | 708391 | 16 |
| 45 | 8.690795 | 693359 | 695908 | 698442 | 700961 | 703466 | 705956 | 708432 | 15 |
| 46 | 8.690838 | 693402 | 695951 | 698484 | 701003 | 703508 | 705998 | 708473 | 14 |
| 47 | 8.690881 | 693445 | 695993 | 698526 | 701045 | 703549 | 706039 | 708515 | 13 |
| 48 | 8.690924 | 693487 | 696035 | 698568 | 701087 | 703591 | 706080 | 708556 | 12 |
| 49 | 8.690967 | 693530 | 696078 | 698611 | 701129 | 703632 | 706122 | 708597 | 11 |
| 50 | 8.691010 | 693572 | 696120 | 698653 | 701171 | 703674 | 706163 | 708638 | 10 |
| 51 | 8.691053 | 693615 | 696162 | 698695 | 701212 | 703716 | 706204 | 708679 | 9 |
| 52 | 8.691095 | 693658 | 696205 | 698737 | 701254 | 703757 | 706246 | 708720 | 8 |
| 53 | 8.691138 | 693700 | 696247 | 698779 | 701296 | 703799 | 706287 | 708761 | 7 |
| 54 | 8.691181 | 693743 | 696289 | 698821 | 701338 | 703840 | 706329 | 708802 | 6 |
| 55 | 8.691224 | 693785 | 696332 | 698863 | 701380 | 703882 | 706370 | 708844 | 5 |
| 56 | 8.691267 | 693828 | 696374 | 698905 | 701422 | 703924 | 706411 | 708885 | 4 |
| 57 | 8.691309 | 693870 | 696416 | 698947 | 701463 | 703965 | 706453 | 708926 | 3 |
| 58 | 8.691352 | 693913 | 696459 | 698989 | 701505 | 704007 | 706494 | 708967 | 2 |
| 59 | 8.691395 | 693955 | 696501 | 699031 | 701547 | 704048 | 706535 | 709008 | 1 |
| 60 | 8.691438 | 693998 | 696543 | 699073 | 701589 | 704090 | 706577 | 709049 | 0 |
| " | 11' | 10' | 9' | 8' | 7' | 6' | 5' | 4' | " |

| " | 48' | 49' | 50' | 51' | 52' | 53' | 54' | 55' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.689381 | 691963 | 694529 | 697081 | 699617 | 702139 | 704646 | 707140 | 60 |
| 1 | 8.689424 | 692006 | 694572 | 697123 | 699659 | 702181 | 704688 | 707181 | 59 |
| 2 | 8.689468 | 692049 | 694615 | 697165 | 699701 | 702223 | 704730 | 707222 | 58 |
| 3 | 8.689511 | 692092 | 694657 | 697208 | 699744 | 702265 | 704771 | 707264 | 57 |
| 4 | 8.689554 | 692134 | 694700 | 697250 | 699786 | 702307 | 704813 | 707305 | 56 |
| 5 | 8.689597 | 692177 | 694742 | 697293 | 699828 | 702349 | 704855 | 707347 | 55 |
| 6 | 8.689640 | 692220 | 694785 | 697335 | 699870 | 702390 | 704896 | 707388 | 54 |
| 7 | 8.689683 | 692263 | 694828 | 697377 | 699912 | 702432 | 704938 | 707429 | 53 |
| 8 | 8.689726 | 692306 | 694870 | 697420 | 699954 | 702474 | 704980 | 707471 | 52 |
| 9 | 8.689770 | 692349 | 694913 | 697462 | 699996 | 702516 | 705021 | 707512 | 51 |
| 10 | 8.689813 | 692392 | 694956 | 697504 | 700038 | 702558 | 705063 | 707554 | 50 |
| 11 | 8.689856 | 692435 | 694998 | 697547 | 700081 | 702600 | 705105 | 707595 | 49 |
| 12 | 8.689899 | 692477 | 695041 | 697589 | 700123 | 702642 | 705146 | 707636 | 48 |
| 13 | 8.689942 | 692520 | 695083 | 697631 | 700165 | 702684 | 705188 | 707678 | 47 |
| 14 | 8.689985 | 692563 | 695126 | 697674 | 700207 | 702725 | 705229 | 707719 | 46 |
| 15 | 8.690028 | 692606 | 695168 | 697716 | 700249 | 702767 | 705271 | 707761 | 45 |
| 16 | 8.690071 | 692649 | 695211 | 697758 | 700291 | 702809 | 705313 | 707802 | 44 |
| 17 | 8.690114 | 692692 | 695254 | 697801 | 700333 | 702851 | 705354 | 707843 | 43 |
| 18 | 8.690157 | 692734 | 695296 | 697843 | 700375 | 702893 | 705396 | 707885 | 42 |
| 19 | 8.690200 | 692777 | 695339 | 697885 | 700417 | 702935 | 705437 | 707926 | 41 |
| 20 | 8.690244 | 692820 | 695381 | 697928 | 700459 | 702976 | 705479 | 707967 | 40 |
| 21 | 8.690287 | 692863 | 695424 | 697970 | 700501 | 703018 | 705521 | 708009 | 39 |
| 22 | 8.690330 | 692906 | 695466 | 698012 | 700544 | 703060 | 705562 | 708050 | 38 |
| 23 | 8.690373 | 692948 | 695509 | 698055 | 700586 | 703102 | 705604 | 708091 | 37 |
| 24 | 8.690416 | 692991 | 695552 | 698097 | 700628 | 703144 | 705645 | 708133 | 36 |
| 25 | 8.690459 | 693034 | 695594 | 698139 | 700670 | 703186 | 705687 | 708174 | 35 |
| 26 | 8.690502 | 693077 | 695637 | 698182 | 700712 | 703227 | 705729 | 708215 | 34 |
| 27 | 8.690545 | 693120 | 695679 | 698224 | 700754 | 703269 | 705770 | 708257 | 33 |
| 28 | 8.690588 | 693162 | 695722 | 698266 | 700796 | 703311 | 705812 | 708298 | 32 |
| 29 | 8.690631 | 693205 | 695764 | 698308 | 700838 | 703353 | 705853 | 708339 | 31 |
| 30 | 8.690674 | 693248 | 695807 | 698351 | 700880 | 703395 | 705895 | 708381 | 30 |
| 31 | 8.690717 | 693291 | 695849 | 698393 | 700922 | 703436 | 705936 | 708422 | 29 |
| 32 | 8.690760 | 693333 | 695892 | 698435 | 700964 | 703478 | 705978 | 708463 | 28 |
| 33 | 8.690803 | 693376 | 695934 | 698478 | 701006 | 703520 | 706019 | 708505 | 27 |
| 34 | 8.690846 | 693419 | 695977 | 698520 | 701048 | 703562 | 706061 | 708546 | 26 |
| 35 | 8.690889 | 693462 | 696019 | 698562 | 701090 | 703603 | 706102 | 708587 | 25 |
| 36 | 8.690932 | 693505 | 696062 | 698604 | 701132 | 703645 | 706144 | 708629 | 24 |
| 37 | 8.690975 | 693547 | 696104 | 698647 | 701174 | 703687 | 706186 | 708670 | 23 |
| 38 | 8.691018 | 693590 | 696147 | 698689 | 701216 | 703729 | 706227 | 708711 | 22 |
| 39 | 8.691061 | 693633 | 696189 | 698731 | 701258 | 703770 | 706269 | 708752 | 21 |
| 40 | 8.691104 | 693675 | 696232 | 698773 | 701300 | 703812 | 706310 | 708794 | 20 |
| 41 | 8.691147 | 693718 | 696274 | 698816 | 701342 | 703854 | 706352 | 708835 | 19 |
| 42 | 8.691190 | 693761 | 696317 | 698858 | 701384 | 703896 | 706393 | 708876 | 18 |
| 43 | 8.691233 | 693804 | 696359 | 698900 | 701426 | 703937 | 706435 | 708918 | 17 |
| 44 | 8.691276 | 693846 | 696402 | 698942 | 701468 | 703979 | 706476 | 708959 | 16 |
| 45 | 8.691319 | 693889 | 696444 | 698984 | 701510 | 704021 | 706518 | 709000 | 15 |
| 46 | 8.691362 | 693932 | 696487 | 699027 | 701552 | 704063 | 706559 | 709041 | 14 |
| 47 | 8.691405 | 693974 | 696529 | 699069 | 701594 | 704104 | 706601 | 709083 | 13 |
| 48 | 8.691448 | 694017 | 696572 | 699111 | 701636 | 704146 | 706642 | 709124 | 12 |
| 49 | 8.691491 | 694060 | 696614 | 699153 | 701678 | 704188 | 706684 | 709165 | 11 |
| 50 | 8.691534 | 694103 | 696656 | 699195 | 701720 | 704230 | 706725 | 709206 | 10 |
| 51 | 8.691577 | 694145 | 696699 | 699238 | 701762 | 704271 | 706766 | 709248 | 9 |
| 52 | 8.691620 | 694188 | 696741 | 699280 | 701804 | 704313 | 706808 | 709289 | 8 |
| 53 | 8.691662 | 694231 | 696784 | 699322 | 701846 | 704355 | 706849 | 709330 | 7 |
| 54 | 8.691705 | 694273 | 696826 | 699364 | 701888 | 704396 | 706891 | 709371 | 6 |
| 55 | 8.691748 | 694316 | 696869 | 699406 | 701929 | 704438 | 706932 | 709412 | 5 |
| 56 | 8.691791 | 694359 | 696911 | 699449 | 701971 | 704480 | 706974 | 709454 | 4 |
| 57 | 8.691834 | 694401 | 696953 | 699491 | 702013 | 704521 | 707015 | 709495 | 3 |
| 58 | 8.691877 | 694444 | 696996 | 699533 | 702055 | 704563 | 707057 | 709536 | 2 |
| 59 | 8.691920 | 694487 | 697038 | 699575 | 702097 | 704605 | 707098 | 709577 | 1 |
| 60 | 8.691963 | 694529 | 697081 | 699617 | 702139 | 704646 | 707140 | 709618 | 0 |
| " | 11' | 10' | 9' | 8' | 7' | 6' | 5' | 4' | " |

| " | 56' | 57' | 58' | 59' | 0' | 1' | 2' | 3' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.709049 | 711507 | 713952 | 716383 | 718800 | 721204 | 723595 | 725972 | 60 |
| 1 | 8.709090 | 711548 | 713993 | 716423 | 718840 | 721244 | 723634 | 726012 | 59 |
| 2 | 8.709131 | 711589 | 714033 | 716464 | 718881 | 721284 | 723674 | 726051 | 58 |
| 3 | 8.709172 | 711630 | 714074 | 716504 | 718921 | 721324 | 723714 | 726091 | 57 |
| 4 | 8.709213 | 711671 | 714115 | 716544 | 718961 | 721364 | 723754 | 726130 | 56 |
| 5 | 8.709254 | 711712 | 714155 | 716585 | 719001 | 721404 | 723793 | 726170 | 55 |
| 6 | 8.709296 | 711753 | 714196 | 716625 | 719041 | 721444 | 723833 | 726209 | 54 |
| 7 | 8.709337 | 711793 | 714236 | 716666 | 719081 | 721484 | 723873 | 726249 | 53 |
| 8 | 8.709378 | 711834 | 714277 | 716706 | 719121 | 721524 | 723912 | 726288 | 52 |
| 9 | 8.709419 | 711875 | 714318 | 716746 | 719162 | 721563 | 723952 | 726328 | 51 |
| 10 | 8.709460 | 711916 | 714358 | 716787 | 719202 | 721603 | 723992 | 726367 | 50 |
| 11 | 8.709501 | 711957 | 714399 | 716827 | 719242 | 721643 | 724031 | 726407 | 49 |
| 12 | 8.709542 | 711998 | 714439 | 716867 | 719282 | 721683 | 724071 | 726446 | 48 |
| 13 | 8.709583 | 712038 | 714480 | 716908 | 719322 | 721723 | 724111 | 726485 | 47 |
| 14 | 8.709624 | 712079 | 714520 | 716948 | 719362 | 721763 | 724151 | 726525 | 46 |
| 15 | 8.709665 | 712120 | 714561 | 716988 | 719402 | 721803 | 724190 | 726564 | 45 |
| 16 | 8.709706 | 712161 | 714602 | 717029 | 719442 | 721843 | 724230 | 726604 | 44 |
| 17 | 8.709747 | 712202 | 714642 | 717069 | 719483 | 721883 | 724270 | 726643 | 43 |
| 18 | 8.709788 | 712242 | 714683 | 717109 | 719523 | 721923 | 724309 | 726683 | 42 |
| 19 | 8.709829 | 712283 | 714723 | 717150 | 719563 | 721962 | 724349 | 726722 | 41 |
| 20 | 8.709870 | 712324 | 714764 | 717190 | 719603 | 722002 | 724389 | 726762 | 40 |
| 21 | 8.709911 | 712365 | 714804 | 717230 | 719643 | 722042 | 724428 | 726801 | 39 |
| 22 | 8.709952 | 712405 | 714845 | 717271 | 719683 | 722082 | 724468 | 726841 | 38 |
| 23 | 8.709993 | 712446 | 714885 | 717311 | 719723 | 722122 | 724508 | 726880 | 37 |
| 24 | 8.710034 | 712487 | 714926 | 717351 | 719763 | 722162 | 724547 | 726919 | 36 |
| 25 | 8.710075 | 712528 | 714967 | 717392 | 719803 | 722202 | 724587 | 726959 | 35 |
| 26 | 8.710116 | 712568 | 715007 | 717432 | 719843 | 722242 | 724626 | 726998 | 34 |
| 27 | 8.710157 | 712609 | 715048 | 717472 | 719884 | 722281 | 724666 | 727038 | 33 |
| 28 | 8.710198 | 712650 | 715088 | 717513 | 719924 | 722321 | 724706 | 727078 | 32 |
| 29 | 8.710239 | 712691 | 715129 | 717553 | 719964 | 722361 | 724745 | 727117 | 31 |
| 30 | 8.710280 | 712731 | 715169 | 717593 | 720004 | 722401 | 724785 | 727156 | 30 |
| 31 | 8.710321 | 712772 | 715210 | 717633 | 720044 | 722441 | 724825 | 727195 | 29 |
| 32 | 8.710362 | 712813 | 715250 | 717674 | 720084 | 722481 | 724864 | 727235 | 28 |
| 33 | 8.710403 | 712854 | 715291 | 717714 | 720124 | 722520 | 724904 | 727274 | 27 |
| 34 | 8.710444 | 712894 | 715331 | 717754 | 720164 | 722560 | 724943 | 727314 | 26 |
| 35 | 8.710485 | 712935 | 715372 | 717795 | 720204 | 722600 | 724983 | 727353 | 25 |
| 36 | 8.710526 | 712976 | 715412 | 717835 | 720244 | 722640 | 725023 | 727392 | 24 |
| 37 | 8.710567 | 713017 | 715453 | 717875 | 720284 | 722680 | 725062 | 727432 | 23 |
| 38 | 8.710608 | 713057 | 715493 | 717915 | 720324 | 722720 | 725102 | 727471 | 22 |
| 39 | 8.710649 | 713098 | 715534 | 717956 | 720364 | 722759 | 725141 | 727510 | 21 |
| 40 | 8.710690 | 713139 | 715574 | 717996 | 720404 | 722799 | 725181 | 727550 | 20 |
| 41 | 8.710730 | 713179 | 715615 | 718036 | 720444 | 722839 | 725221 | 727589 | 19 |
| 42 | 8.710771 | 713220 | 715655 | 718076 | 720484 | 722879 | 725260 | 727629 | 18 |
| 43 | 8.710812 | 713261 | 715696 | 718117 | 720524 | 722919 | 725300 | 727668 | 17 |
| 44 | 8.710853 | 713302 | 715736 | 718157 | 720564 | 722958 | 725339 | 727707 | 16 |
| 45 | 8.710894 | 713342 | 715776 | 718197 | 720604 | 722998 | 725379 | 727747 | 15 |
| 46 | 8.710935 | 713383 | 715817 | 718237 | 720644 | 723038 | 725419 | 727786 | 14 |
| 47 | 8.710976 | 713424 | 715857 | 718278 | 720684 | 723078 | 725458 | 727825 | 13 |
| 48 | 8.711017 | 713464 | 715898 | 718318 | 720724 | 723118 | 725498 | 727865 | 12 |
| 49 | 8.711058 | 713505 | 715938 | 718358 | 720764 | 723157 | 725537 | 727904 | 11 |
| 50 | 8.711099 | 713546 | 715979 | 718398 | 720804 | 723197 | 725577 | 727943 | 10 |
| 51 | 8.711140 | 713586 | 716019 | 718438 | 720844 | 723237 | 725616 | 727983 | 9 |
| 52 | 8.711181 | 713627 | 716060 | 718479 | 720884 | 723277 | 725656 | 728022 | 8 |
| 53 | 8.711221 | 713668 | 716100 | 718519 | 720924 | 723316 | 725695 | 728061 | 7 |
| 54 | 8.711262 | 713708 | 716140 | 718559 | 720964 | 723356 | 725735 | 728101 | 6 |
| 55 | 8.711303 | 713749 | 716181 | 718599 | 721004 | 723396 | 725774 | 728140 | 5 |
| 56 | 8.711344 | 713790 | 716221 | 718639 | 721044 | 723436 | 725814 | 728179 | 4 |
| 57 | 8.711385 | 713830 | 716262 | 718680 | 721084 | 723475 | 725854 | 728219 | 3 |
| 58 | 8.711426 | 713871 | 716302 | 718720 | 721124 | 723515 | 725893 | 728258 | 2 |
| 59 | 8.711467 | 713911 | 716342 | 718760 | 721164 | 723555 | 725933 | 728297 | 1 |
| 60 | 8.711507 | 713952 | 716383 | 718800 | 721204 | 723595 | 725972 | 728337 | 0 |
| " | 3' | 2' | 1' | 0' | 59' | 58' | 57' | 56' | " |

| " | 56' | 57' | 58' | 59' | 0' | 1' | 2' | 3' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 709618 | 712083 | 714534 | 716972 | 719396 | 721806 | 724204 | 726588 | 60 |
| 1 | 8.709660 | 712124 | 714575 | 717012 | 719436 | 721846 | 724243 | 726627 | 59 |
| 2 | 8.709701 | 712165 | 714616 | 717053 | 719476 | 721886 | 724283 | 726667 | 58 |
| 3 | 8.709742 | 712206 | 714657 | 717093 | 719517 | 721926 | 724323 | 726707 | 57 |
| 4 | 8.709783 | 712247 | 714697 | 717134 | 719557 | 721966 | 724363 | 726746 | 56 |
| 5 | 8.709824 | 712288 | 714738 | 717174 | 719597 | 722007 | 724403 | 726786 | 55 |
| 6 | 8.709866 | 712329 | 714779 | 717215 | 719637 | 722047 | 724443 | 726825 | 54 |
| 7 | 8.709907 | 712370 | 714820 | 717255 | 719678 | 722087 | 724482 | 726865 | 53 |
| 8 | 8.709948 | 712411 | 714860 | 717296 | 719718 | 722127 | 724522 | 726905 | 52 |
| 9 | 8.709989 | 712452 | 714901 | 717336 | 719758 | 722167 | 724562 | 726944 | 51 |
| 10 | 8.710030 | 712493 | 714942 | 717377 | 719798 | 722207 | 724602 | 726984 | 50 |
| 11 | 8.710071 | 712534 | 714982 | 717417 | 719839 | 722247 | 724642 | 727023 | 49 |
| 12 | 8.710113 | 712575 | 715023 | 717458 | 719879 | 722287 | 724681 | 727063 | 48 |
| 13 | 8.710154 | 712616 | 715064 | 717498 | 719919 | 722327 | 724721 | 727103 | 47 |
| 14 | 8.710195 | 712657 | 715104 | 717539 | 719959 | 722367 | 724761 | 727142 | 46 |
| 15 | 8.710236 | 712697 | 715145 | 717579 | 720000 | 722407 | 724801 | 727182 | 45 |
| 16 | 8.710277 | 712738 | 715186 | 717620 | 720040 | 722447 | 724841 | 727221 | 44 |
| 17 | 8.710318 | 712779 | 715226 | 717660 | 720080 | 722487 | 724880 | 727261 | 43 |
| 18 | 8.710359 | 712820 | 715267 | 717700 | 720120 | 722527 | 724920 | 727300 | 42 |
| 19 | 8.710401 | 712861 | 715308 | 717741 | 720161 | 722567 | 724960 | 727340 | 41 |
| 20 | 8.710442 | 712902 | 715348 | 717781 | 720201 | 722607 | 725000 | 727380 | 40 |
| 21 | 8.710483 | 712943 | 715389 | 717822 | 720241 | 722647 | 725039 | 727419 | 39 |
| 22 | 8.710524 | 712984 | 715430 | 717862 | 720281 | 722687 | 725079 | 727459 | 38 |
| 23 | 8.710565 | 713025 | 715470 | 717903 | 720321 | 722727 | 725119 | 727498 | 37 |
| 24 | 8.710606 | 713065 | 715511 | 717943 | 720362 | 722767 | 725159 | 727538 | 36 |
| 25 | 8.710647 | 713106 | 715552 | 717983 | 720402 | 722807 | 725199 | 727577 | 35 |
| 26 | 8.710688 | 713147 | 715592 | 718024 | 720442 | 722847 | 725238 | 727617 | 34 |
| 27 | 8.710729 | 713188 | 715633 | 718064 | 720482 | 722887 | 725278 | 727656 | 33 |
| 28 | 8.710770 | 713229 | 715674 | 718105 | 720522 | 722927 | 725318 | 727696 | 32 |
| 29 | 8.710812 | 713270 | 715714 | 718145 | 720562 | 722967 | 725357 | 727735 | 31 |
| 30 | 8.710853 | 713311 | 715755 | 718186 | 720603 | 723007 | 725397 | 727775 | 30 |
| 31 | 8.710894 | 713351 | 715795 | 718226 | 720643 | 723046 | 725437 | 727814 | 29 |
| 32 | 8.710935 | 713392 | 715836 | 718266 | 720683 | 723086 | 725477 | 727854 | 28 |
| 33 | 8.710976 | 713433 | 715877 | 718307 | 720723 | 723126 | 725516 | 727893 | 27 |
| 34 | 8.711017 | 713474 | 715917 | 718347 | 720763 | 723166 | 725556 | 727933 | 26 |
| 35 | 8.711058 | 713515 | 715958 | 718387 | 720803 | 723206 | 725596 | 727972 | 25 |
| 36 | 8.711099 | 713556 | 715999 | 718428 | 720844 | 723246 | 725636 | 728012 | 24 |
| 37 | 8.711140 | 713597 | 716039 | 718468 | 720884 | 723286 | 725675 | 728051 | 23 |
| 38 | 8.711181 | 713637 | 716080 | 718509 | 720924 | 723326 | 725715 | 728091 | 22 |
| 39 | 8.711222 | 713678 | 716120 | 718549 | 720964 | 723366 | 725755 | 728130 | 21 |
| 40 | 8.711263 | 713719 | 716161 | 718589 | 721004 | 723406 | 725794 | 728170 | 20 |
| 41 | 8.711304 | 713760 | 716202 | 718630 | 721044 | 723446 | 725834 | 728209 | 19 |
| 42 | 8.711345 | 713801 | 716242 | 718670 | 721085 | 723486 | 725874 | 728249 | 18 |
| 43 | 8.711386 | 713841 | 716283 | 718710 | 721125 | 723526 | 725914 | 728288 | 17 |
| 44 | 8.711427 | 713882 | 716323 | 718751 | 721165 | 723566 | 725953 | 728328 | 16 |
| 45 | 8.711468 | 713923 | 716364 | 718791 | 721205 | 723605 | 725993 | 728367 | 15 |
| 46 | 8.711509 | 713964 | 716404 | 718831 | 721245 | 723645 | 726033 | 728407 | 14 |
| 47 | 8.711550 | 714005 | 716445 | 718872 | 721285 | 723685 | 726072 | 728446 | 13 |
| 48 | 8.711592 | 714045 | 716485 | 718912 | 721325 | 723725 | 726112 | 728486 | 12 |
| 49 | 8.711633 | 714086 | 716526 | 718952 | 721365 | 723765 | 726152 | 728525 | 11 |
| 50 | 8.711674 | 714127 | 716567 | 718993 | 721405 | 723805 | 726191 | 728565 | 10 |
| 51 | 8.711715 | 714168 | 716607 | 719033 | 721446 | 723845 | 726231 | 728604 | 9 |
| 52 | 8.711756 | 714208 | 716648 | 719073 | 721486 | 723885 | 726271 | 728644 | 8 |
| 53 | 8.711797 | 714249 | 716688 | 719114 | 721526 | 723925 | 726310 | 728683 | 7 |
| 54 | 8.711838 | 714290 | 716729 | 719154 | 721566 | 723964 | 726350 | 728722 | 6 |
| 55 | 8.711879 | 714331 | 716769 | 719194 | 721606 | 724004 | 726390 | 728762 | 5 |
| 56 | 8.711919 | 714371 | 716810 | 719235 | 721646 | 724044 | 726429 | 728801 | 4 |
| 57 | 8.711960 | 714412 | 716850 | 719275 | 721686 | 724084 | 726469 | 728841 | 3 |
| 58 | 8.712001 | 714453 | 716891 | 719315 | 721726 | 724124 | 726508 | 728880 | 2 |
| 59 | 8.712042 | 714494 | 716931 | 719355 | 721766 | 724164 | 726548 | 728919 | 1 |
| 60 | 8.712083 | 714534 | 716972 | 719396 | 721806 | 724204 | 726588 | 728959 | 0 |
| " | 3' | 2' | 1' | 0' | 59' | 58' | 57' | 56' | " |

| " | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.728337 | 730688 | 733027 | 735354 | 737667 | 739969 | 742259 | 744536 | 60 |
| 1 | 8.728376 | 730727 | 733066 | 735392 | 737706 | 740007 | 742297 | 744574 | 59 |
| 2 | 8.728415 | 730766 | 733105 | 735431 | 737744 | 740046 | 742335 | 744612 | 58 |
| 3 | 8.728454 | 730805 | 733144 | 735470 | 737783 | 740084 | 742373 | 744650 | 57 |
| 4 | 8.728494 | 730845 | 733183 | 735508 | 737821 | 740122 | 742411 | 744687 | 56 |
| 5 | 8.728533 | 730884 | 733221 | 735547 | 737860 | 740160 | 742449 | 744725 | 55 |
| 6 | 8.728572 | 730923 | 733260 | 735585 | 737898 | 740199 | 742487 | 744763 | 54 |
| 7 | 8.728612 | 730962 | 733299 | 735624 | 737937 | 740237 | 742525 | 744801 | 53 |
| 8 | 8.728651 | 731001 | 733338 | 735663 | 737975 | 740275 | 742563 | 744839 | 52 |
| 9 | 8.728690 | 731040 | 733377 | 735701 | 738014 | 740313 | 742601 | 744877 | 51 |
| 10 | 8.728729 | 731079 | 733416 | 735740 | 738052 | 740352 | 742639 | 744914 | 50 |
| 11 | 8.728769 | 731118 | 733455 | 735779 | 738090 | 740390 | 742677 | 744952 | 49 |
| 12 | 8.728808 | 731157 | 733493 | 735817 | 738129 | 740428 | 742715 | 744990 | 48 |
| 13 | 8.728847 | 731196 | 733532 | 735856 | 738167 | 740466 | 742753 | 745028 | 47 |
| 14 | 8.728886 | 731235 | 733571 | 735895 | 738206 | 740504 | 742791 | 745066 | 46 |
| 15 | 8.728926 | 731274 | 733610 | 735933 | 738244 | 740543 | 742829 | 745104 | 45 |
| 16 | 8.728965 | 731313 | 733649 | 735972 | 738282 | 740581 | 742867 | 745141 | 44 |
| 17 | 8.729004 | 731352 | 733688 | 736010 | 738321 | 740619 | 742905 | 745179 | 43 |
| 18 | 8.729043 | 731391 | 733726 | 736049 | 738359 | 740657 | 742943 | 745217 | 42 |
| 19 | 8.729083 | 731430 | 733765 | 736088 | 738398 | 740695 | 742981 | 745255 | 41 |
| 20 | 8.729122 | 731469 | 733804 | 736126 | 738436 | 740734 | 743019 | 745293 | 40 |
| 21 | 8.729161 | 731508 | 733843 | 736165 | 738474 | 740772 | 743057 | 745330 | 39 |
| 22 | 8.729200 | 731547 | 733882 | 736203 | 738513 | 740810 | 743095 | 745368 | 38 |
| 23 | 8.729240 | 731586 | 733920 | 736242 | 738551 | 740848 | 743133 | 745406 | 37 |
| 24 | 8.729279 | 731625 | 733959 | 736281 | 738590 | 740886 | 743171 | 745444 | 36 |
| 25 | 8.729318 | 731664 | 733998 | 736319 | 738628 | 740925 | 743209 | 745481 | 35 |
| 26 | 8.729357 | 731703 | 734037 | 736358 | 738666 | 740963 | 743247 | 745519 | 34 |
| 27 | 8.729396 | 731742 | 734076 | 736396 | 738705 | 741001 | 743285 | 745557 | 33 |
| 28 | 8.729435 | 731781 | 734114 | 736435 | 738743 | 741039 | 743323 | 745595 | 32 |
| 29 | 8.729475 | 731820 | 734153 | 736473 | 738781 | 741077 | 743361 | 745633 | 31 |
| 30 | 8.729514 | 731859 | 734192 | 736512 | 738820 | 741115 | 743399 | 745670 | 30 |
| 31 | 8.729553 | 731898 | 734231 | 736551 | 738858 | 741154 | 743437 | 745708 | 29 |
| 32 | 8.729592 | 731937 | 734269 | 736589 | 738897 | 741192 | 743475 | 745746 | 28 |
| 33 | 8.729632 | 731976 | 734308 | 736628 | 738935 | 741230 | 743513 | 745784 | 27 |
| 34 | 8.729671 | 732015 | 734347 | 736666 | 738973 | 741268 | 743551 | 745821 | 26 |
| 35 | 8.729710 | 732054 | 734386 | 736705 | 739012 | 741306 | 743589 | 745859 | 25 |
| 36 | 8.729749 | 732093 | 734424 | 736743 | 739050 | 741344 | 743626 | 745897 | 24 |
| 37 | 8.729788 | 732132 | 734463 | 736782 | 739088 | 741382 | 743664 | 745934 | 23 |
| 38 | 8.729827 | 732171 | 734502 | 736820 | 739127 | 741421 | 743702 | 745972 | 22 |
| 39 | 8.729867 | 732210 | 734541 | 736859 | 739165 | 741459 | 743740 | 746010 | 21 |
| 40 | 8.729906 | 732249 | 734580 | 736898 | 739203 | 741497 | 743778 | 746048 | 20 |
| 41 | 8.729945 | 732288 | 734619 | 736937 | 739242 | 741535 | 743816 | 746085 | 19 |
| 42 | 8.729984 | 732327 | 734657 | 736975 | 739280 | 741573 | 743854 | 746123 | 18 |
| 43 | 8.730023 | 732366 | 734696 | 737013 | 739318 | 741611 | 743892 | 746161 | 17 |
| 44 | 8.730062 | 732405 | 734734 | 737052 | 739357 | 741649 | 743930 | 746199 | 16 |
| 45 | 8.730101 | 732444 | 734773 | 737090 | 739395 | 741687 | 743968 | 746236 | 15 |
| 46 | 8.730141 | 732483 | 734812 | 737129 | 739433 | 741725 | 744006 | 746274 | 14 |
| 47 | 8.730180 | 732521 | 734851 | 737167 | 739471 | 741764 | 744044 | 746312 | 13 |
| 48 | 8.730219 | 732560 | 734889 | 737206 | 739510 | 741802 | 744081 | 746350 | 12 |
| 49 | 8.730258 | 732599 | 734928 | 737244 | 739548 | 741840 | 744119 | 746387 | 11 |
| 50 | 8.730297 | 732638 | 734967 | 737283 | 739586 | 741878 | 744157 | 746425 | 10 |
| 51 | 8.730336 | 732677 | 735005 | 737321 | 739625 | 741916 | 744195 | 746462 | 9 |
| 52 | 8.730375 | 732716 | 735044 | 737360 | 739663 | 741954 | 744233 | 746500 | 8 |
| 53 | 8.730415 | 732755 | 735083 | 737398 | 739701 | 741992 | 744271 | 746538 | 7 |
| 54 | 8.730454 | 732794 | 735121 | 737437 | 739740 | 742030 | 744309 | 746576 | 6 |
| 55 | 8.730493 | 732833 | 735160 | 737475 | 739778 | 742068 | 744347 | 746613 | 5 |
| 56 | 8.730532 | 732872 | 735199 | 737514 | 739816 | 742106 | 744385 | 746651 | 4 |
| 57 | 8.730571 | 732911 | 735238 | 737552 | 739854 | 742144 | 744422 | 746689 | 3 |
| 58 | 8.730610 | 732949 | 735276 | 737591 | 739893 | 742182 | 744460 | 746726 | 2 |
| 59 | 8.730649 | 732988 | 735315 | 737629 | 739931 | 742221 | 744498 | 746764 | 1 |
| 60 | 8.730688 | 733027 | 735354 | 737667 | 739969 | 742259 | 744536 | 746802 | 0 |
| " | 55' | 54' | 53' | 52' | 51' | 50' | 49' | 48' | " |

| " | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.728959 | 731317 | 733663 | 735996 | 738317 | 740626 | 742922 | 745207 | 60 |
| 1 | 8.728998 | 731357 | 733702 | 736035 | 738356 | 740664 | 742960 | 745245 | 59 |
| 2 | 8.729038 | 731396 | 733741 | 736074 | 738394 | 740703 | 742999 | 745283 | 58 |
| 3 | 8.729077 | 731435 | 733780 | 736113 | 738433 | 740741 | 743037 | 745321 | 57 |
| 4 | 8.729117 | 731474 | 733819 | 736151 | 738471 | 740779 | 743075 | 745359 | 56 |
| 5 | 8.729156 | 731513 | 733858 | 736190 | 738510 | 740818 | 743113 | 745397 | 55 |
| 6 | 8.729195 | 731553 | 733897 | 736229 | 738549 | 740856 | 743151 | 745434 | 54 |
| 7 | 8.729235 | 731592 | 733936 | 736268 | 738587 | 740894 | 743189 | 745472 | 53 |
| 8 | 8.729274 | 731631 | 733975 | 736307 | 738626 | 740933 | 743228 | 745510 | 52 |
| 9 | 8.729314 | 731670 | 734014 | 736345 | 738664 | 740971 | 743266 | 745548 | 51 |
| 10 | 8.729353 | 731709 | 734053 | 736384 | 738703 | 741009 | 743304 | 745586 | 50 |
| 11 | 8.729392 | 731748 | 734092 | 736423 | 738741 | 741048 | 743342 | 745624 | 49 |
| 12 | 8.729432 | 731788 | 734131 | 736462 | 738780 | 741086 | 743380 | 745662 | 48 |
| 13 | 8.729471 | 731827 | 734170 | 736500 | 738818 | 741124 | 743418 | 745700 | 47 |
| 14 | 8.729510 | 731866 | 734209 | 736539 | 738857 | 741163 | 743456 | 745738 | 46 |
| 15 | 8.729550 | 731905 | 734248 | 736578 | 738896 | 741201 | 743494 | 745776 | 45 |
| 16 | 8.729589 | 731944 | 734287 | 736616 | 738934 | 741239 | 743533 | 745814 | 44 |
| 17 | 8.729628 | 731983 | 734325 | 736655 | 738973 | 741278 | 743571 | 745852 | 43 |
| 18 | 8.729668 | 732022 | 734364 | 736694 | 739011 | 741316 | 743609 | 745890 | 42 |
| 19 | 8.729707 | 732062 | 734403 | 736733 | 739050 | 741354 | 743647 | 745928 | 41 |
| 20 | 8.729746 | 732101 | 734442 | 736771 | 739088 | 741393 | 743685 | 745966 | 40 |
| 21 | 8.729785 | 732140 | 734481 | 736810 | 739127 | 741431 | 743723 | 746003 | 39 |
| 22 | 8.729825 | 732179 | 734520 | 736849 | 739165 | 741469 | 743761 | 746041 | 38 |
| 23 | 8.729865 | 732218 | 734559 | 736887 | 739204 | 741508 | 743799 | 746079 | 37 |
| 24 | 8.729904 | 732257 | 734598 | 736926 | 739242 | 741546 | 743837 | 746117 | 36 |
| 25 | 8.729943 | 732296 | 734637 | 736965 | 739281 | 741584 | 743876 | 746155 | 35 |
| 26 | 8.729982 | 732335 | 734676 | 737004 | 739319 | 741622 | 743914 | 746193 | 34 |
| 27 | 8.730022 | 732375 | 734715 | 737042 | 739358 | 741661 | 743952 | 746231 | 33 |
| 28 | 8.730061 | 732414 | 734754 | 737081 | 739396 | 741699 | 743990 | 746269 | 32 |
| 29 | 8.730100 | 732453 | 734792 | 737120 | 739435 | 741737 | 744028 | 746307 | 31 |
| 30 | 8.730140 | 732492 | 734831 | 737158 | 739473 | 741776 | 744066 | 746344 | 30 |
| 31 | 8.730179 | 732531 | 734870 | 737197 | 739512 | 741814 | 744104 | 746382 | 29 |
| 32 | 8.730218 | 732570 | 734909 | 737236 | 739550 | 741852 | 744142 | 746420 | 28 |
| 33 | 8.730258 | 732609 | 734948 | 737274 | 739588 | 741890 | 744180 | 746458 | 27 |
| 34 | 8.730297 | 732648 | 734987 | 737313 | 739627 | 741929 | 744218 | 746496 | 26 |
| 35 | 8.730336 | 732687 | 735026 | 737352 | 739665 | 741967 | 744256 | 746534 | 25 |
| 36 | 8.730376 | 732726 | 735065 | 737390 | 739704 | 742005 | 744294 | 746572 | 24 |
| 37 | 8.730415 | 732765 | 735103 | 737429 | 739742 | 742043 | 744332 | 746609 | 23 |
| 38 | 8.730454 | 732804 | 735142 | 737468 | 739781 | 742082 | 744370 | 746647 | 22 |
| 39 | 8.730493 | 732844 | 735181 | 737506 | 739819 | 742120 | 744408 | 746685 | 21 |
| 40 | 8.730533 | 732883 | 735220 | 737545 | 739858 | 742158 | 744447 | 746723 | 20 |
| 41 | 8.730572 | 732922 | 735259 | 737584 | 739896 | 742197 | 744485 | 746761 | 19 |
| 42 | 8.730611 | 732961 | 735298 | 737622 | 739934 | 742235 | 744523 | 746799 | 18 |
| 43 | 8.730650 | 733000 | 735337 | 737661 | 739973 | 742273 | 744561 | 746837 | 17 |
| 44 | 8.730690 | 733039 | 735375 | 737700 | 740011 | 742311 | 744599 | 746874 | 16 |
| 45 | 8.730729 | 733078 | 735414 | 737738 | 740050 | 742349 | 744637 | 746912 | 15 |
| 46 | 8.730768 | 733117 | 735453 | 737777 | 740088 | 742387 | 744675 | 746950 | 14 |
| 47 | 8.730807 | 733156 | 735492 | 737815 | 740127 | 742426 | 744713 | 746988 | 13 |
| 48 | 8.730847 | 733195 | 735531 | 737854 | 740165 | 742464 | 744751 | 747026 | 12 |
| 49 | 8.730886 | 733234 | 735570 | 737893 | 740203 | 742502 | 744789 | 747063 | 11 |
| 50 | 8.730925 | 733273 | 735608 | 737931 | 740242 | 742540 | 744827 | 747101 | 10 |
| 51 | 8.730964 | 733312 | 735647 | 737970 | 740280 | 742579 | 744865 | 747139 | 9 |
| 52 | 8.731004 | 733351 | 735686 | 738008 | 740319 | 742617 | 744903 | 747177 | 8 |
| 53 | 8.731043 | 733390 | 735725 | 738047 | 740357 | 742655 | 744941 | 747215 | 7 |
| 54 | 8.731082 | 733429 | 735764 | 738086 | 740395 | 742693 | 744979 | 747253 | 6 |
| 55 | 8.731122 | 733468 | 735802 | 738124 | 740434 | 742731 | 745017 | 747290 | 5 |
| 56 | 8.731161 | 733507 | 735841 | 738163 | 740472 | 742770 | 745055 | 747328 | 4 |
| 57 | 8.731200 | 733546 | 735880 | 738201 | 740511 | 742808 | 745093 | 747366 | 3 |
| 58 | 8.731239 | 733585 | 735919 | 738240 | 740549 | 742846 | 745131 | 747404 | 2 |
| 59 | 8.731278 | 733624 | 735958 | 738279 | 740587 | 742884 | 745169 | 747441 | 1 |
| 60 | 8.731317 | 733663 | 735996 | 738317 | 740626 | 742922 | 745207 | 747479 | 0 |
| " | 55' | 54' | 53' | 52' | 51' | 50' | 49' | 48' | " |

| " | 12' | 13' | 14' | 15' | 16' | 17' | 18' | 19' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.746802 | 749055 | 751297 | 753528 | 755747 | 757955 | 760151 | 762337 | 60 |
| 1 | 8.746839 | 749093 | 751335 | 753565 | 755784 | 757991 | 760188 | 762373 | 59 |
| 2 | 8.746877 | 749130 | 751372 | 753602 | 755821 | 758028 | 760224 | 762409 | 58 |
| 3 | 8.746915 | 749168 | 751409 | 753639 | 755858 | 758065 | 760261 | 762446 | 57 |
| 4 | 8.746952 | 749205 | 751446 | 753676 | 755894 | 758101 | 760297 | 762482 | 56 |
| 5 | 8.746990 | 749243 | 751484 | 753713 | 755931 | 758138 | 760334 | 762518 | 55 |
| 6 | 8.747027 | 749280 | 751521 | 753750 | 755968 | 758175 | 760370 | 762555 | 54 |
| 7 | 8.747065 | 749317 | 751558 | 753787 | 756005 | 758211 | 760407 | 762591 | 53 |
| 8 | 8.747103 | 749355 | 751595 | 753824 | 756042 | 758248 | 760443 | 762627 | 52 |
| 9 | 8.747140 | 749392 | 751633 | 753861 | 756079 | 758285 | 760480 | 762663 | 51 |
| 10 | 8.747178 | 749430 | 751670 | 753898 | 756116 | 758321 | 760516 | 762700 | 50 |
| 11 | 8.747216 | 749467 | 751707 | 753935 | 756152 | 758358 | 760553 | 762736 | 49 |
| 12 | 8.747253 | 749505 | 751744 | 753973 | 756189 | 758395 | 760589 | 762772 | 48 |
| 13 | 8.747291 | 749542 | 751782 | 754010 | 756226 | 758431 | 760626 | 762809 | 47 |
| 14 | 8.747328 | 749579 | 751819 | 754047 | 756263 | 758468 | 760662 | 762845 | 46 |
| 15 | 8.747366 | 749617 | 751856 | 754084 | 756300 | 758505 | 760699 | 762881 | 45 |
| 16 | 8.747404 | 749654 | 751893 | 754121 | 756337 | 758541 | 760735 | 762918 | 44 |
| 17 | 8.747441 | 749692 | 751930 | 754158 | 756374 | 758578 | 760772 | 762954 | 43 |
| 18 | 8.747479 | 749729 | 751968 | 754195 | 756410 | 758615 | 760808 | 762990 | 42 |
| 19 | 8.747516 | 749767 | 752005 | 754232 | 756447 | 758651 | 760844 | 763026 | 41 |
| 20 | 8.747554 | 749804 | 752042 | 754269 | 756484 | 758688 | 760881 | 763063 | 40 |
| 21 | 8.747592 | 749841 | 752079 | 754306 | 756521 | 758725 | 760917 | 763099 | 39 |
| 22 | 8.747629 | 749879 | 752116 | 754343 | 756558 | 758761 | 760954 | 763135 | 38 |
| 23 | 8.747667 | 749916 | 752154 | 754380 | 756595 | 758798 | 760990 | 763171 | 37 |
| 24 | 8.747704 | 749953 | 752191 | 754417 | 756631 | 758835 | 761027 | 763208 | 36 |
| 25 | 8.747742 | 749991 | 752228 | 754454 | 756668 | 758871 | 761063 | 763244 | 35 |
| 26 | 8.747780 | 750028 | 752265 | 754491 | 756705 | 758908 | 761100 | 763280 | 34 |
| 27 | 8.747817 | 750066 | 752302 | 754528 | 756742 | 758944 | 761136 | 763316 | 33 |
| 28 | 8.747855 | 750103 | 752340 | 754565 | 756779 | 758981 | 761172 | 763353 | 32 |
| 29 | 8.747892 | 750140 | 752377 | 754602 | 756815 | 759018 | 761209 | 763389 | 31 |
| 30 | 8.747930 | 750178 | 752414 | 754639 | 756852 | 759054 | 761245 | 763425 | 30 |
| 31 | 8.747967 | 750215 | 752451 | 754676 | 756889 | 759091 | 761282 | 763461 | 29 |
| 32 | 8.748005 | 750252 | 752488 | 754713 | 756926 | 759128 | 761318 | 763498 | 28 |
| 33 | 8.748043 | 750290 | 752526 | 754750 | 756963 | 759164 | 761355 | 763534 | 27 |
| 34 | 8.748080 | 750327 | 752563 | 754787 | 756999 | 759201 | 761391 | 763570 | 26 |
| 35 | 8.748118 | 750365 | 752600 | 754824 | 757036 | 759237 | 761427 | 763606 | 25 |
| 36 | 8.748155 | 750402 | 752637 | 754861 | 757073 | 759274 | 761464 | 763643 | 24 |
| 37 | 8.748193 | 750439 | 752674 | 754898 | 757110 | 759310 | 761500 | 763679 | 23 |
| 38 | 8.748230 | 750477 | 752711 | 754935 | 757146 | 759347 | 761537 | 763715 | 22 |
| 39 | 8.748268 | 750514 | 752748 | 754971 | 757183 | 759384 | 761573 | 763751 | 21 |
| 40 | 8.748305 | 750551 | 752786 | 755008 | 757220 | 759421 | 761609 | 763788 | 20 |
| 41 | 8.748343 | 750589 | 752823 | 755045 | 757257 | 759457 | 761646 | 763824 | 19 |
| 42 | 8.748380 | 750626 | 752860 | 755082 | 757293 | 759493 | 761682 | 763860 | 18 |
| 43 | 8.748418 | 750663 | 752897 | 755119 | 757330 | 759530 | 761719 | 763896 | 17 |
| 44 | 8.748455 | 750701 | 752934 | 755156 | 757367 | 759567 | 761755 | 763932 | 16 |
| 45 | 8.748493 | 750738 | 752971 | 755193 | 757404 | 759603 | 761791 | 763969 | 15 |
| 46 | 8.748530 | 750775 | 753008 | 755230 | 757440 | 759640 | 761828 | 764005 | 14 |
| 47 | 8.748568 | 750813 | 753046 | 755267 | 757477 | 759676 | 761864 | 764041 | 13 |
| 48 | 8.748605 | 750850 | 753083 | 755304 | 757514 | 759713 | 761900 | 764077 | 12 |
| 49 | 8.748643 | 750887 | 753120 | 755341 | 757551 | 759749 | 761937 | 764113 | 11 |
| 50 | 8.748680 | 750924 | 753157 | 755378 | 757587 | 759786 | 761973 | 764149 | 10 |
| 51 | 8.748718 | 750962 | 753194 | 755415 | 757624 | 759822 | 762010 | 764186 | 9 |
| 52 | 8.748755 | 750999 | 753231 | 755452 | 757661 | 759859 | 762046 | 764222 | 8 |
| 53 | 8.748793 | 751036 | 753268 | 755489 | 757698 | 759895 | 762082 | 764258 | 7 |
| 54 | 8.748830 | 751074 | 753305 | 755525 | 757734 | 759932 | 762119 | 764294 | 6 |
| 55 | 8.748868 | 751111 | 753342 | 755562 | 757771 | 759969 | 762155 | 764330 | 5 |
| 56 | 8.748905 | 751148 | 753379 | 755599 | 757808 | 760005 | 762191 | 764366 | 4 |
| 57 | 8.748943 | 751185 | 753417 | 755636 | 757845 | 760042 | 762228 | 764403 | 3 |
| 58 | 8.748980 | 751223 | 753454 | 755673 | 757881 | 760078 | 762264 | 764439 | 2 |
| 59 | 8.749018 | 751260 | 753491 | 755710 | 757918 | 760115 | 762300 | 764475 | 1 |
| 60 | 8.749055 | 751297 | 753528 | 755747 | 757955 | 760151 | 762337 | 764511 | 0 |
| " | 47' | 46' | 45' | 44' | 43' | 42' | 41' | 40' | " |

| " | 12' | 13' | 14' | 15' | 16' | 17' | 18' | 19' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.747479 | 749740 | 751989 | 754227 | 756453 | 758668 | 760872 | 763065 | 60 |
| 1 | 8.747517 | 749778 | 752027 | 754264 | 756490 | 758705 | 760909 | 763101 | 59 |
| 2 | 8.747555 | 749815 | 752064 | 754301 | 756527 | 758742 | 760945 | 763138 | 58 |
| 3 | 8.747593 | 749853 | 752101 | 754338 | 756564 | 758779 | 760982 | 763174 | 57 |
| 4 | 8.747630 | 749890 | 752139 | 754376 | 756601 | 758815 | 761018 | 763210 | 56 |
| 5 | 8.747668 | 749928 | 752176 | 754413 | 756638 | 758852 | 761055 | 763247 | 55 |
| 6 | 8.747706 | 749965 | 752213 | 754450 | 756675 | 758889 | 761092 | 763283 | 54 |
| 7 | 8.747744 | 750003 | 752251 | 754487 | 756712 | 758926 | 761128 | 763320 | 53 |
| 8 | 8.747781 | 750041 | 752288 | 754524 | 756749 | 758963 | 761165 | 763356 | 52 |
| 9 | 8.747819 | 750078 | 752326 | 754562 | 756786 | 758999 | 761202 | 763393 | 51 |
| 10 | 8.747857 | 750116 | 752363 | 754599 | 756823 | 759036 | 761238 | 763429 | 50 |
| 11 | 8.747895 | 750153 | 752400 | 754636 | 756860 | 759073 | 761275 | 763465 | 49 |
| 12 | 8.747932 | 750191 | 752438 | 754673 | 756897 | 759110 | 761311 | 763502 | 48 |
| 13 | 8.747970 | 750228 | 752475 | 754710 | 756934 | 759147 | 761348 | 763538 | 47 |
| 14 | 8.748008 | 750266 | 752512 | 754747 | 756971 | 759183 | 761385 | 763575 | 46 |
| 15 | 8.748046 | 750303 | 752550 | 754784 | 757008 | 759220 | 761421 | 763611 | 45 |
| 16 | 8.748083 | 750341 | 752587 | 754822 | 757045 | 759257 | 761458 | 763648 | 44 |
| 17 | 8.748121 | 750378 | 752624 | 754859 | 757082 | 759294 | 761494 | 763684 | 43 |
| 18 | 8.748159 | 750416 | 752662 | 754896 | 757119 | 759330 | 761531 | 763720 | 42 |
| 19 | 8.748196 | 750454 | 752700 | 754933 | 757156 | 759367 | 761567 | 763757 | 41 |
| 20 | 8.748234 | 750491 | 752736 | 754970 | 757193 | 759404 | 761604 | 763793 | 40 |
| 21 | 8.748272 | 750529 | 752774 | 755007 | 757230 | 759441 | 761641 | 763830 | 39 |
| 22 | 8.748310 | 750566 | 752811 | 755044 | 757267 | 759477 | 761677 | 763866 | 38 |
| 23 | 8.748347 | 750604 | 752848 | 755082 | 757304 | 759514 | 761714 | 763902 | 37 |
| 24 | 8.748385 | 750641 | 752886 | 755119 | 757340 | 759551 | 761750 | 763939 | 36 |
| 25 | 8.748423 | 750679 | 752923 | 755156 | 757377 | 759588 | 761787 | 763975 | 35 |
| 26 | 8.748460 | 750716 | 752960 | 755193 | 757414 | 759624 | 761823 | 764011 | 34 |
| 27 | 8.748498 | 750754 | 752998 | 755230 | 757451 | 759661 | 761860 | 764048 | 33 |
| 28 | 8.748536 | 750791 | 753035 | 755267 | 757488 | 759698 | 761897 | 764084 | 32 |
| 29 | 8.748573 | 750829 | 753072 | 755304 | 757525 | 759735 | 761933 | 764121 | 31 |
| 30 | 8.748611 | 750866 | 753109 | 755341 | 757562 | 759771 | 761970 | 764157 | 30 |
| 31 | 8.748649 | 750904 | 753147 | 755379 | 757599 | 759808 | 762006 | 764193 | 29 |
| 32 | 8.748686 | 750941 | 753184 | 755416 | 757636 | 759845 | 762043 | 764230 | 28 |
| 33 | 8.748724 | 750979 | 753221 | 755453 | 757673 | 759882 | 762079 | 764266 | 27 |
| 34 | 8.748762 | 751016 | 753259 | 755490 | 757710 | 759918 | 762116 | 764302 | 26 |
| 35 | 8.748799 | 751053 | 753296 | 755527 | 757747 | 759955 | 762152 | 764339 | 25 |
| 36 | 8.748837 | 751091 | 753333 | 755564 | 757783 | 759992 | 762189 | 764375 | 24 |
| 37 | 8.748875 | 751128 | 753370 | 755601 | 757820 | 760028 | 762225 | 764411 | 23 |
| 38 | 8.748912 | 751166 | 753408 | 755638 | 757857 | 760065 | 762262 | 764448 | 22 |
| 39 | 8.748950 | 751203 | 753445 | 755675 | 757894 | 760102 | 762298 | 764484 | 21 |
| 40 | 8.748988 | 751241 | 753482 | 755712 | 757931 | 760139 | 762335 | 764520 | 20 |
| 41 | 8.749025 | 751278 | 753520 | 755749 | 757968 | 760175 | 762371 | 764557 | 19 |
| 42 | 8.749063 | 751316 | 753557 | 755786 | 758005 | 760212 | 762408 | 764593 | 18 |
| 43 | 8.749101 | 751353 | 753594 | 755823 | 758042 | 760249 | 762444 | 764629 | 17 |
| 44 | 8.749138 | 751391 | 753631 | 755861 | 758079 | 760285 | 762481 | 764666 | 16 |
| 45 | 8.749176 | 751428 | 753669 | 755898 | 758115 | 760322 | 762518 | 764702 | 15 |
| 46 | 8.749214 | 751465 | 753706 | 755935 | 758152 | 760359 | 762554 | 764738 | 14 |
| 47 | 8.749251 | 751503 | 753743 | 755972 | 758189 | 760395 | 762590 | 764775 | 13 |
| 48 | 8.749289 | 751540 | 753780 | 756009 | 758226 | 760432 | 762627 | 764811 | 12 |
| 49 | 8.749326 | 751578 | 753817 | 756046 | 758263 | 760469 | 762663 | 764847 | 11 |
| 50 | 8.749364 | 751615 | 753855 | 756083 | 758300 | 760505 | 762700 | 764884 | 10 |
| 51 | 8.749402 | 751653 | 753892 | 756120 | 758337 | 760542 | 762736 | 764920 | 9 |
| 52 | 8.749439 | 751690 | 753929 | 756157 | 758373 | 760579 | 762773 | 764956 | 8 |
| 53 | 8.749477 | 751727 | 753966 | 756194 | 758410 | 760615 | 762809 | 764992 | 7 |
| 54 | 8.749514 | 751765 | 754004 | 756231 | 758447 | 760652 | 762846 | 765029 | 6 |
| 55 | 8.749552 | 751802 | 754041 | 756268 | 758484 | 760689 | 762882 | 765065 | 5 |
| 56 | 8.749590 | 751840 | 754078 | 756305 | 758521 | 760725 | 762919 | 765101 | 4 |
| 57 | 8.749627 | 751877 | 754115 | 756342 | 758558 | 760762 | 762955 | 765138 | 3 |
| 58 | 8.749665 | 751914 | 754152 | 756379 | 758594 | 760799 | 762992 | 765174 | 2 |
| 59 | 8.749702 | 751952 | 754190 | 756416 | 758631 | 760835 | 763028 | 765210 | 1 |
| 60 | 8.749740 | 751989 | 754227 | 756453 | 758668 | 760872 | 763065 | 765246 | 0 |
| " | 47' | 46' | 45' | 44' | 43' | 42' | 41' | 40' | " |

| " | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.764511 | 766675 | 768828 | 770970 | 773101 | 775223 | 777333 | 779434 | 60 |
| 1 | 8.764547 | 766711 | 768863 | 771005 | 773137 | 775258 | 777368 | 779469 | 59 |
| 2 | 8.764583 | 766747 | 768899 | 771041 | 773172 | 775293 | 777404 | 779504 | 58 |
| 3 | 8.764620 | 766783 | 768935 | 771077 | 773208 | 775328 | 777439 | 779539 | 57 |
| 4 | 8.764656 | 766819 | 768971 | 771112 | 773243 | 775364 | 777474 | 779574 | 56 |
| 5 | 8.764692 | 766855 | 769006 | 771148 | 773279 | 775399 | 777509 | 779609 | 55 |
| 6 | 8.764728 | 766890 | 769042 | 771183 | 773314 | 775434 | 777544 | 779643 | 54 |
| 7 | 8.764764 | 766926 | 769078 | 771219 | 773349 | 775469 | 777579 | 779678 | 53 |
| 8 | 8.764800 | 766962 | 769114 | 771255 | 773385 | 775505 | 777614 | 779713 | 52 |
| 9 | 8.764836 | 766998 | 769150 | 771291 | 773421 | 775541 | 777650 | 779748 | 51 |
| 10 | 8.764872 | 767034 | 769186 | 771326 | 773456 | 775576 | 777685 | 779783 | 50 |
| 11 | 8.764909 | 767070 | 769221 | 771361 | 773491 | 775610 | 777719 | 779818 | 49 |
| 12 | 8.764945 | 767106 | 769257 | 771397 | 773526 | 775646 | 777754 | 779853 | 48 |
| 13 | 8.764981 | 767142 | 769293 | 771432 | 773562 | 775681 | 777789 | 779888 | 47 |
| 14 | 8.765017 | 767178 | 769328 | 771468 | 773597 | 775716 | 777824 | 779923 | 46 |
| 15 | 8.765053 | 767214 | 769364 | 771504 | 773633 | 775751 | 777860 | 779958 | 45 |
| 16 | 8.765089 | 767250 | 769400 | 771539 | 773668 | 775786 | 777895 | 779992 | 44 |
| 17 | 8.765125 | 767286 | 769436 | 771575 | 773703 | 775822 | 777930 | 780027 | 43 |
| 18 | 8.765161 | 767322 | 769471 | 771610 | 773739 | 775857 | 777965 | 780062 | 42 |
| 19 | 8.765197 | 767358 | 769507 | 771646 | 773775 | 775892 | 778000 | 780097 | 41 |
| 20 | 8.765233 | 767394 | 769543 | 771681 | 773811 | 775927 | 778035 | 780132 | 40 |
| 21 | 8.765270 | 767429 | 769579 | 771717 | 773845 | 775963 | 778070 | 780167 | 39 |
| 22 | 8.765306 | 767465 | 769615 | 771753 | 773880 | 775998 | 778105 | 780202 | 38 |
| 23 | 8.765342 | 767501 | 769650 | 771788 | 773916 | 776033 | 778140 | 780237 | 37 |
| 24 | 8.765378 | 767537 | 769686 | 771824 | 773951 | 776068 | 778175 | 780271 | 36 |
| 25 | 8.765414 | 767573 | 769721 | 771859 | 773986 | 776103 | 778210 | 780306 | 35 |
| 26 | 8.765450 | 767609 | 769757 | 771895 | 774022 | 776139 | 778245 | 780341 | 34 |
| 27 | 8.765486 | 767645 | 769793 | 771930 | 774057 | 776174 | 778280 | 780376 | 33 |
| 28 | 8.765522 | 767681 | 769829 | 771966 | 774093 | 776209 | 778315 | 780411 | 32 |
| 29 | 8.765558 | 767717 | 769864 | 772001 | 774128 | 776244 | 778350 | 780446 | 31 |
| 30 | 8.765594 | 767752 | 769900 | 772037 | 774163 | 776279 | 778385 | 780480 | 30 |
| 31 | 8.765630 | 767788 | 769936 | 772072 | 774199 | 776314 | 778420 | 780515 | 29 |
| 32 | 8.765666 | 767824 | 769971 | 772108 | 774234 | 776350 | 778455 | 780550 | 28 |
| 33 | 8.765702 | 767860 | 770007 | 772143 | 774269 | 776385 | 778490 | 780585 | 27 |
| 34 | 8.765738 | 767896 | 770043 | 772179 | 774305 | 776420 | 778525 | 780620 | 26 |
| 35 | 8.765775 | 767932 | 770078 | 772214 | 774340 | 776455 | 778560 | 780655 | 25 |
| 36 | 8.765811 | 767968 | 770114 | 772250 | 774375 | 776490 | 778595 | 780689 | 24 |
| 37 | 8.765847 | 768004 | 770150 | 772285 | 774411 | 776525 | 778630 | 780724 | 23 |
| 38 | 8.765883 | 768039 | 770185 | 772321 | 774446 | 776561 | 778665 | 780759 | 22 |
| 39 | 8.765919 | 768075 | 770221 | 772356 | 774481 | 776596 | 778700 | 780794 | 21 |
| 40 | 8.765955 | 768111 | 770257 | 772392 | 774517 | 776631 | 778735 | 780829 | 20 |
| 41 | 8.765991 | 768147 | 770293 | 772427 | 774552 | 776666 | 778770 | 780864 | 19 |
| 42 | 8.766027 | 768183 | 770328 | 772463 | 774588 | 776701 | 778805 | 780898 | 18 |
| 43 | 8.766063 | 768219 | 770364 | 772498 | 774623 | 776736 | 778840 | 780933 | 17 |
| 44 | 8.766099 | 768255 | 770400 | 772534 | 774658 | 776772 | 778875 | 780968 | 16 |
| 45 | 8.766135 | 768290 | 770435 | 772569 | 774693 | 776807 | 778910 | 781003 | 15 |
| 46 | 8.766171 | 768326 | 770471 | 772605 | 774729 | 776842 | 778945 | 781038 | 14 |
| 47 | 8.766207 | 768362 | 770506 | 772640 | 774764 | 776877 | 778980 | 781072 | 13 |
| 48 | 8.766243 | 768398 | 770542 | 772676 | 774799 | 776912 | 779015 | 781107 | 12 |
| 49 | 8.766279 | 768434 | 770578 | 772711 | 774834 | 776947 | 779050 | 781142 | 11 |
| 50 | 8.766315 | 768469 | 770613 | 772747 | 774870 | 776982 | 779085 | 781177 | 10 |
| 51 | 8.766351 | 768505 | 770649 | 772782 | 774905 | 777017 | 779120 | 781212 | 9 |
| 52 | 8.766387 | 768541 | 770685 | 772818 | 774940 | 777053 | 779155 | 781246 | 8 |
| 53 | 8.766423 | 768577 | 770720 | 772853 | 774976 | 777088 | 779189 | 781281 | 7 |
| 54 | 8.766459 | 768613 | 770756 | 772889 | 775011 | 777123 | 779224 | 781316 | 6 |
| 55 | 8.766495 | 768649 | 770792 | 772924 | 775046 | 777158 | 779259 | 781351 | 5 |
| 56 | 8.766531 | 768684 | 770827 | 772960 | 775081 | 777193 | 779294 | 781385 | 4 |
| 57 | 8.766567 | 768720 | 770863 | 772995 | 775117 | 777228 | 779329 | 781420 | 3 |
| 58 | 8.766603 | 768756 | 770898 | 773030 | 775152 | 777263 | 779364 | 781455 | 2 |
| 59 | 8.766639 | 768792 | 770934 | 773066 | 775187 | 777298 | 779399 | 781490 | 1 |
| 60 | 8.766675 | 768828 | 770970 | 773101 | 775223 | 777333 | 779434 | 781524 | 0 |
| " | 39' | 38' | 37' | 36' | 35' | 34' | 33' | 32' | " |

| " | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.765246 | 767417 | 769578 | 771727 | 773866 | 775995 | 778114 | 780222 | 60 |
| 1 | 8.765283 | 767454 | 769614 | 771763 | 773902 | 776031 | 778149 | 780257 | 59 |
| 2 | 8.765319 | 767490 | 769650 | 771799 | 773938 | 776066 | 778184 | 780292 | 58 |
| 3 | 8.765355 | 767526 | 769685 | 771835 | 773973 | 776101 | 778219 | 780327 | 57 |
| 4 | 8.765392 | 767562 | 769721 | 771870 | 774009 | 776137 | 778254 | 780362 | 56 |
| 5 | 8.765428 | 767598 | 769757 | 771906 | 774044 | 776172 | 778290 | 780397 | 55 |
| 6 | 8.765464 | 767634 | 769793 | 771942 | 774080 | 776207 | 778325 | 780432 | 54 |
| 7 | 8.765500 | 767670 | 769829 | 771977 | 774115 | 776243 | 778360 | 780467 | 53 |
| 8 | 8.765537 | 767706 | 769865 | 772013 | 774151 | 776278 | 778395 | 780502 | 52 |
| 9 | 8.765573 | 767742 | 769901 | 772049 | 774186 | 776314 | 778430 | 780537 | 51 |
| 10 | 8.765609 | 767778 | 769937 | 772085 | 774222 | 776349 | 778466 | 780572 | 50 |
| 11 | 8.765645 | 767814 | 769973 | 772120 | 774258 | 776384 | 778501 | 780607 | 49 |
| 12 | 8.765682 | 767850 | 770008 | 772156 | 774293 | 776420 | 778536 | 780642 | 48 |
| 13 | 8.765718 | 767886 | 770044 | 772192 | 774329 | 776455 | 778571 | 780677 | 47 |
| 14 | 8.765754 | 767922 | 770080 | 772227 | 774364 | 776490 | 778606 | 780712 | 46 |
| 15 | 8.765790 | 767959 | 770116 | 772263 | 774400 | 776526 | 778642 | 780747 | 45 |
| 16 | 8.765826 | 767995 | 770152 | 772299 | 774435 | 776561 | 778677 | 780782 | 44 |
| 17 | 8.765863 | 768031 | 770188 | 772335 | 774471 | 776596 | 778712 | 780817 | 43 |
| 18 | 8.765899 | 768067 | 770224 | 772370 | 774506 | 776632 | 778747 | 780852 | 42 |
| 19 | 8.765935 | 768103 | 770260 | 772406 | 774542 | 776667 | 778782 | 780887 | 41 |
| 20 | 8.765971 | 768139 | 770295 | 772442 | 774577 | 776702 | 778817 | 780922 | 40 |
| 21 | 8.766008 | 768175 | 770331 | 772477 | 774613 | 776738 | 778853 | 780957 | 39 |
| 22 | 8.766044 | 768211 | 770367 | 772513 | 774648 | 776773 | 778888 | 780992 | 38 |
| 23 | 8.766080 | 768247 | 770403 | 772549 | 774684 | 776808 | 778923 | 781027 | 37 |
| 24 | 8.766116 | 768283 | 770439 | 772584 | 774719 | 776844 | 778958 | 781062 | 36 |
| 25 | 8.766152 | 768319 | 770475 | 772620 | 774755 | 776879 | 778993 | 781097 | 35 |
| 26 | 8.766189 | 768355 | 770511 | 772656 | 774790 | 776914 | 779028 | 781132 | 34 |
| 27 | 8.766225 | 768391 | 770546 | 772691 | 774826 | 776950 | 779064 | 781167 | 33 |
| 28 | 8.766261 | 768427 | 770582 | 772727 | 774861 | 776985 | 779099 | 781202 | 32 |
| 29 | 8.766297 | 768463 | 770618 | 772763 | 774897 | 777020 | 779134 | 781237 | 31 |
| 30 | 8.766333 | 768499 | 770654 | 772798 | 774932 | 777056 | 779169 | 781272 | 30 |
| 31 | 8.766369 | 768535 | 770690 | 772834 | 774968 | 777091 | 779204 | 781307 | 29 |
| 32 | 8.766406 | 768571 | 770726 | 772870 | 775003 | 777126 | 779239 | 781342 | 28 |
| 33 | 8.766442 | 768607 | 770761 | 772905 | 775039 | 777162 | 779274 | 781377 | 27 |
| 34 | 8.766478 | 768643 | 770797 | 772941 | 775074 | 777197 | 779309 | 781412 | 26 |
| 35 | 8.766514 | 768679 | 770833 | 772976 | 775109 | 777232 | 779345 | 781447 | 25 |
| 36 | 8.766550 | 768715 | 770869 | 773012 | 775145 | 777267 | 779380 | 781482 | 24 |
| 37 | 8.766587 | 768751 | 770905 | 773048 | 775180 | 777303 | 779415 | 781517 | 23 |
| 38 | 8.766623 | 768787 | 770940 | 773083 | 775216 | 777338 | 779450 | 781552 | 22 |
| 39 | 8.766659 | 768823 | 770976 | 773119 | 775251 | 777373 | 779485 | 781587 | 21 |
| 40 | 8.766695 | 768859 | 771012 | 773155 | 775287 | 777409 | 779520 | 781622 | 20 |
| 41 | 8.766731 | 768895 | 771048 | 773190 | 775322 | 777444 | 779555 | 781657 | 19 |
| 42 | 8.766767 | 768931 | 771084 | 773226 | 775358 | 777479 | 779590 | 781691 | 18 |
| 43 | 8.766803 | 768967 | 771119 | 773261 | 775393 | 777514 | 779625 | 781726 | 17 |
| 44 | 8.766840 | 769003 | 771155 | 773297 | 775429 | 777550 | 779661 | 781761 | 16 |
| 45 | 8.766876 | 769039 | 771191 | 773333 | 775464 | 777585 | 779696 | 781796 | 15 |
| 46 | 8.766912 | 769075 | 771227 | 773368 | 775499 | 777620 | 779731 | 781831 | 14 |
| 47 | 8.766948 | 769111 | 771262 | 773404 | 775535 | 777655 | 779766 | 781866 | 13 |
| 48 | 8.766984 | 769147 | 771298 | 773439 | 775570 | 777691 | 779801 | 781901 | 12 |
| 49 | 8.767020 | 769182 | 771334 | 773475 | 775606 | 777726 | 779836 | 781936 | 11 |
| 50 | 8.767056 | 769218 | 771370 | 773511 | 775641 | 777761 | 779871 | 781971 | 10 |
| 51 | 8.767092 | 769254 | 771406 | 773546 | 775677 | 777796 | 779906 | 782006 | 9 |
| 52 | 8.767129 | 769290 | 771441 | 773582 | 775712 | 777832 | 779941 | 782041 | 8 |
| 53 | 8.767165 | 769326 | 771477 | 773617 | 775747 | 777867 | 779976 | 782076 | 7 |
| 54 | 8.767201 | 769362 | 771513 | 773653 | 775783 | 777902 | 780011 | 782111 | 6 |
| 55 | 8.767237 | 769398 | 771549 | 773689 | 775818 | 777937 | 780046 | 782145 | 5 |
| 56 | 8.767273 | 769434 | 771584 | 773724 | 775854 | 777973 | 780082 | 782180 | 4 |
| 57 | 8.767309 | 769470 | 771620 | 773760 | 775889 | 778008 | 780117 | 782215 | 3 |
| 58 | 8.767345 | 769506 | 771656 | 773795 | 775924 | 778043 | 780152 | 782250 | 2 |
| 59 | 8.767381 | 769542 | 771692 | 773831 | 775960 | 778078 | 780187 | 782285 | 1 |
| 60 | 8.767417 | 769578 | 771727 | 773866 | 775995 | 778114 | 780222 | 782320 | 0 |
| " | 39' | 38' | 37' | 36' | 35' | 34' | 33' | 32' | " |

| " | 28' | 29' | 30' | 31' | 32' | 33' | 34' | 35' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.781524 | 783605 | 785675 | 787736 | 789787 | 791828 | 793859 | 795881 | 60 |
| 1 | 8.781559 | 783639 | 785710 | 787770 | 789821 | 791862 | 793893 | 795915 | 59 |
| 2 | 8.781594 | 783674 | 785744 | 787804 | 789855 | 791896 | 793927 | 795949 | 58 |
| 3 | 8.781629 | 783709 | 785779 | 787839 | 789889 | 791930 | 793961 | 795982 | 57 |
| 4 | 8.781663 | 783743 | 785813 | 787873 | 789923 | 791964 | 793994 | 796016 | 56 |
| 5 | 8.781698 | 783778 | 785847 | 787907 | 789957 | 791997 | 794028 | 796050 | 55 |
| 6 | 8.781733 | 783812 | 785882 | 787941 | 789991 | 792031 | 794062 | 796083 | 54 |
| 7 | 8.781768 | 783847 | 785916 | 787976 | 790025 | 792065 | 794096 | 796117 | 53 |
| 8 | 8.781802 | 783881 | 785951 | 788010 | 790059 | 792099 | 794130 | 796150 | 52 |
| 9 | 8.781837 | 783916 | 785985 | 788044 | 790093 | 792133 | 794163 | 796184 | 51 |
| 10 | 8.781872 | 783951 | 786019 | 788078 | 790128 | 792167 | 794197 | 796218 | 50 |
| 11 | 8.781907 | 783985 | 786054 | 788113 | 790162 | 792201 | 794231 | 796251 | 49 |
| 12 | 8.781941 | 784020 | 786088 | 788147 | 790196 | 792235 | 794265 | 796285 | 48 |
| 13 | 8.781976 | 784054 | 786123 | 788181 | 790230 | 792269 | 794298 | 796318 | 47 |
| 14 | 8.782011 | 784089 | 786157 | 788215 | 790264 | 792303 | 794332 | 796352 | 46 |
| 15 | 8.782045 | 784123 | 786191 | 788249 | 790298 | 792337 | 794366 | 796385 | 45 |
| 16 | 8.782080 | 784158 | 786226 | 788284 | 790332 | 792370 | 794400 | 796419 | 44 |
| 17 | 8.782115 | 784192 | 786260 | 788318 | 790366 | 792404 | 794433 | 796453 | 43 |
| 18 | 8.782150 | 784227 | 786294 | 788352 | 790400 | 792438 | 794467 | 796486 | 42 |
| 19 | 8.782184 | 784262 | 786329 | 788386 | 790434 | 792472 | 794501 | 796520 | 41 |
| 20 | 8.782219 | 784296 | 786363 | 788421 | 790468 | 792506 | 794534 | 796553 | 40 |
| 21 | 8.782254 | 784331 | 786398 | 788455 | 790502 | 792540 | 794568 | 796587 | 39 |
| 22 | 8.782288 | 784365 | 786432 | 788489 | 790536 | 792574 | 794602 | 796620 | 38 |
| 23 | 8.782323 | 784400 | 786466 | 788523 | 790570 | 792608 | 794636 | 796654 | 37 |
| 24 | 8.782358 | 784434 | 786501 | 788557 | 790604 | 792642 | 794669 | 796688 | 36 |
| 25 | 8.782392 | 784469 | 786535 | 788592 | 790638 | 792675 | 794703 | 796721 | 35 |
| 26 | 8.782427 | 784503 | 786569 | 788626 | 790672 | 792709 | 794737 | 796755 | 34 |
| 27 | 8.782462 | 784538 | 786604 | 788660 | 790706 | 792743 | 794770 | 796788 | 33 |
| 28 | 8.782497 | 784572 | 786638 | 788694 | 790740 | 792777 | 794804 | 796822 | 32 |
| 29 | 8.782531 | 784607 | 786672 | 788728 | 790774 | 792811 | 794838 | 796855 | 31 |
| 30 | 8.782566 | 784641 | 786707 | 788762 | 790808 | 792845 | 794872 | 796889 | 30 |
| 31 | 8.782601 | 784676 | 786741 | 788797 | 790842 | 792879 | 794905 | 796922 | 29 |
| 32 | 8.782635 | 784710 | 786775 | 788831 | 790876 | 792912 | 794939 | 796956 | 28 |
| 33 | 8.782670 | 784745 | 786810 | 788865 | 790910 | 792946 | 794973 | 796990 | 27 |
| 34 | 8.782705 | 784779 | 786844 | 788899 | 790945 | 792980 | 795006 | 797023 | 26 |
| 35 | 8.782739 | 784814 | 786878 | 788933 | 790979 | 793014 | 795040 | 797057 | 25 |
| 36 | 8.782774 | 784848 | 786913 | 788968 | 791013 | 793048 | 795074 | 797090 | 24 |
| 37 | 8.782809 | 784883 | 786947 | 789002 | 791047 | 793082 | 795107 | 797124 | 23 |
| 38 | 8.782843 | 784917 | 786981 | 789036 | 791081 | 793116 | 795141 | 797157 | 22 |
| 39 | 8.782878 | 784952 | 787016 | 789070 | 791115 | 793149 | 795175 | 797191 | 21 |
| 40 | 8.782912 | 784985 | 787050 | 789104 | 791149 | 793183 | 795208 | 797224 | 20 |
| 41 | 8.782947 | 785021 | 787084 | 789138 | 791182 | 793217 | 795242 | 797258 | 19 |
| 42 | 8.782982 | 785055 | 787119 | 789172 | 791216 | 793251 | 795276 | 797291 | 18 |
| 43 | 8.783016 | 785090 | 787153 | 789207 | 791250 | 793285 | 795309 | 797325 | 17 |
| 44 | 8.783051 | 785124 | 787187 | 789241 | 791284 | 793319 | 795343 | 797358 | 16 |
| 45 | 8.783086 | 785159 | 787222 | 789275 | 791318 | 793352 | 795377 | 797392 | 15 |
| 46 | 8.783120 | 785193 | 787256 | 789309 | 791352 | 793386 | 795410 | 797425 | 14 |
| 47 | 8.783155 | 785228 | 787290 | 789343 | 791386 | 793420 | 795444 | 797459 | 13 |
| 48 | 8.783190 | 785262 | 787325 | 789377 | 791420 | 793454 | 795478 | 797492 | 12 |
| 49 | 8.783224 | 785296 | 787359 | 789411 | 791454 | 793488 | 795511 | 797526 | 11 |
| 50 | 8.783259 | 785331 | 787393 | 789446 | 791488 | 793521 | 795545 | 797559 | 10 |
| 51 | 8.783293 | 785365 | 787427 | 789480 | 791522 | 793555 | 795579 | 797593 | 9 |
| 52 | 8.783328 | 785400 | 787462 | 789514 | 791556 | 793589 | 795612 | 797626 | 8 |
| 53 | 8.783363 | 785434 | 787496 | 789548 | 791590 | 793623 | 795646 | 797660 | 7 |
| 54 | 8.783397 | 785469 | 787530 | 789582 | 791624 | 793657 | 795680 | 797693 | 6 |
| 55 | 8.783432 | 785503 | 787565 | 789616 | 791658 | 793690 | 795713 | 797727 | 5 |
| 56 | 8.783466 | 785538 | 787599 | 789650 | 791692 | 793724 | 795747 | 797760 | 4 |
| 57 | 8.783501 | 785572 | 787633 | 789684 | 791726 | 793758 | 795781 | 797794 | 3 |
| 58 | 8.783536 | 785606 | 787667 | 789718 | 791760 | 793792 | 795814 | 797827 | 2 |
| 59 | 8.783570 | 785641 | 787702 | 789753 | 791794 | 793826 | 795848 | 797861 | 1 |
| 60 | 8.783605 | 785675 | 787736 | 789787 | 791828 | 793859 | 795881 | 797894 | 0 |
| " | 31' | 30' | 29' | 28' | 27' | 26' | 25' | 24' | " |

| " | 28' | 29' | 30' | 31' | 32' | 33' | 34' | 35' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.782320 | 784408 | 786486 | 788554 | 790613 | 792662 | 794701 | 796731 | 60 |
| 1 | 8.782355 | 784443 | 786521 | 788589 | 790647 | 792696 | 794735 | 796765 | 59 |
| 2 | 8.782390 | 784477 | 786555 | 788623 | 790681 | 792730 | 794769 | 796799 | 58 |
| 3 | 8.782425 | 784512 | 786590 | 788658 | 790716 | 792764 | 794803 | 796833 | 57 |
| 4 | 8.782459 | 784547 | 786624 | 788692 | 790750 | 792798 | 794837 | 796866 | 56 |
| 5 | 8.782494 | 784581 | 786659 | 788726 | 790784 | 792832 | 794871 | 796900 | 55 |
| 6 | 8.782529 | 784616 | 786693 | 788761 | 790818 | 792866 | 794905 | 796934 | 54 |
| 7 | 8.782564 | 784651 | 786728 | 788795 | 790853 | 792900 | 794939 | 796968 | 53 |
| 8 | 8.782599 | 784686 | 786762 | 788829 | 790887 | 792934 | 794973 | 797001 | 52 |
| 9 | 8.782634 | 784720 | 786797 | 788864 | 790921 | 792968 | 795006 | 797035 | 51 |
| 10 | 8.782669 | 784755 | 786831 | 788898 | 790955 | 793003 | 795040 | 797069 | 50 |
| 11 | 8.782703 | 784790 | 786866 | 788933 | 790989 | 793037 | 795074 | 797102 | 49 |
| 12 | 8.782738 | 784824 | 786901 | 788967 | 791024 | 793071 | 795108 | 797136 | 48 |
| 13 | 8.782773 | 784859 | 786935 | 789001 | 791058 | 793105 | 795142 | 797170 | 47 |
| 14 | 8.782808 | 784894 | 786970 | 789036 | 791092 | 793139 | 795176 | 797204 | 46 |
| 15 | 8.782843 | 784928 | 787004 | 789070 | 791126 | 793173 | 795210 | 797237 | 45 |
| 16 | 8.782878 | 784963 | 787039 | 789104 | 791160 | 793207 | 795244 | 797271 | 44 |
| 17 | 8.782912 | 784998 | 787073 | 789139 | 791195 | 793241 | 795277 | 797305 | 43 |
| 18 | 8.782947 | 785032 | 787108 | 789173 | 791229 | 793275 | 795311 | 797338 | 42 |
| 19 | 8.782982 | 785067 | 787142 | 789207 | 791263 | 793309 | 795345 | 797372 | 41 |
| 20 | 8.783017 | 785102 | 787177 | 789242 | 791297 | 793343 | 795379 | 797406 | 40 |
| 21 | 8.783052 | 785136 | 787211 | 789276 | 791331 | 793377 | 795413 | 797440 | 39 |
| 22 | 8.783087 | 785171 | 787246 | 789310 | 791365 | 793411 | 795447 | 797473 | 38 |
| 23 | 8.783121 | 785206 | 787280 | 789345 | 791400 | 793445 | 795481 | 797507 | 37 |
| 24 | 8.783156 | 785240 | 787315 | 789379 | 791434 | 793479 | 795514 | 797541 | 36 |
| 25 | 8.783191 | 785275 | 787349 | 789413 | 791468 | 793513 | 795548 | 797574 | 35 |
| 26 | 8.783226 | 785310 | 787384 | 789448 | 791502 | 793547 | 795582 | 797608 | 34 |
| 27 | 8.783261 | 785344 | 787418 | 789482 | 791536 | 793581 | 795616 | 797642 | 33 |
| 28 | 8.783296 | 785379 | 787453 | 789516 | 791570 | 793615 | 795650 | 797675 | 32 |
| 29 | 8.783330 | 785414 | 787487 | 789551 | 791605 | 793649 | 795684 | 797709 | 31 |
| 30 | 8.783365 | 785448 | 787521 | 789585 | 791639 | 793683 | 795718 | 797743 | 30 |
| 31 | 8.783400 | 785483 | 787556 | 789619 | 791673 | 793717 | 795751 | 797776 | 29 |
| 32 | 8.783435 | 785518 | 787590 | 789654 | 791707 | 793751 | 795785 | 797810 | 28 |
| 33 | 8.783470 | 785552 | 787625 | 789688 | 791741 | 793785 | 795819 | 797844 | 27 |
| 34 | 8.783504 | 785587 | 787659 | 789722 | 791775 | 793819 | 795853 | 797877 | 26 |
| 35 | 8.783539 | 785621 | 787694 | 789756 | 791809 | 793853 | 795887 | 797911 | 25 |
| 36 | 8.783574 | 785656 | 787728 | 789791 | 791844 | 793887 | 795920 | 797945 | 24 |
| 37 | 8.783609 | 785691 | 787763 | 789825 | 791878 | 793921 | 795954 | 797978 | 23 |
| 38 | 8.783643 | 785725 | 787797 | 789859 | 791912 | 793955 | 795988 | 798012 | 22 |
| 39 | 8.783678 | 785760 | 787832 | 789894 | 791946 | 793989 | 796022 | 798046 | 21 |
| 40 | 8.783713 | 785794 | 787866 | 789928 | 791980 | 794023 | 796056 | 798079 | 20 |
| 41 | 8.783748 | 785829 | 787900 | 789962 | 792014 | 794057 | 796090 | 798113 | 19 |
| 42 | 8.783783 | 785864 | 787935 | 789996 | 792048 | 794091 | 796123 | 798147 | 18 |
| 43 | 8.783817 | 785898 | 787969 | 790031 | 792082 | 794125 | 796157 | 798180 | 17 |
| 44 | 8.783852 | 785933 | 788004 | 790065 | 792117 | 794158 | 796191 | 798214 | 16 |
| 45 | 8.783887 | 785967 | 788038 | 790099 | 792151 | 794192 | 796225 | 798248 | 15 |
| 46 | 8.783922 | 786002 | 788073 | 790134 | 792185 | 794226 | 796259 | 798281 | 14 |
| 47 | 8.783956 | 786037 | 788107 | 790168 | 792219 | 794260 | 796292 | 798315 | 13 |
| 48 | 8.783991 | 786071 | 788142 | 790202 | 792253 | 794294 | 796326 | 798349 | 12 |
| 49 | 8.784026 | 786106 | 788176 | 790236 | 792287 | 794328 | 796360 | 798382 | 11 |
| 50 | 8.784061 | 786140 | 788210 | 790271 | 792321 | 794362 | 796394 | 798416 | 10 |
| 51 | 8.784095 | 786175 | 788245 | 790305 | 792355 | 794396 | 796427 | 798449 | 9 |
| 52 | 8.784130 | 786210 | 788279 | 790339 | 792389 | 794430 | 796461 | 798483 | 8 |
| 53 | 8.784165 | 786244 | 788314 | 790373 | 792423 | 794464 | 796495 | 798517 | 7 |
| 54 | 8.784200 | 786279 | 788348 | 790408 | 792457 | 794498 | 796529 | 798550 | 6 |
| 55 | 8.784234 | 786313 | 788382 | 790442 | 792492 | 794532 | 796563 | 798584 | 5 |
| 56 | 8.784269 | 786348 | 788417 | 790476 | 792526 | 794566 | 796596 | 798617 | 4 |
| 57 | 8.784304 | 786382 | 788451 | 790510 | 792560 | 794600 | 796630 | 798650 | 3 |
| 58 | 8.784338 | 786417 | 788486 | 790545 | 792594 | 794634 | 796664 | 798685 | 2 |
| 59 | 8.784373 | 786452 | 788520 | 790579 | 792628 | 794667 | 796698 | 798718 | 1 |
| 60 | 8.784408 | 786486 | 788554 | 790613 | 792662 | 794701 | 796731 | 798752 | 0 |
| " | 31' | 30' | 29' | 28' | 27' | 26' | 25' | 24' | " |

| " | 36' | 37' | 38' | 39' | 40' | 41' | 42' | 43' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.797894 | 799897 | 801892 | 803876 | 805852 | 807819 | 809777 | 811726 | 60 |
| 1 | 8.797928 | 799931 | 801925 | 803909 | 805885 | 807852 | 809810 | 811759 | 59 |
| 2 | 8.797961 | 799964 | 801958 | 803942 | 805918 | 807885 | 809842 | 811791 | 58 |
| 3 | 8.797994 | 799997 | 801991 | 803975 | 805951 | 807917 | 809875 | 811824 | 57 |
| 4 | 8.798028 | 800031 | 802024 | 804008 | 805984 | 807950 | 809907 | 811856 | 56 |
| 5 | 8.798061 | 800064 | 802057 | 804041 | 806017 | 807983 | 809940 | 811888 | 55 |
| 6 | 8.798095 | 800097 | 802090 | 804074 | 806049 | 808015 | 809973 | 811921 | 54 |
| 7 | 8.798128 | 800131 | 802124 | 804107 | 806082 | 808048 | 810005 | 811953 | 53 |
| 8 | 8.798162 | 800164 | 802157 | 804140 | 806115 | 808081 | 810038 | 811986 | 52 |
| 9 | 8.798195 | 800197 | 802190 | 804173 | 806148 | 808113 | 810070 | 812018 | 51 |
| 10 | 8.798229 | 800230 | 802223 | 804206 | 806181 | 808146 | 810103 | 812050 | 50 |
| 11 | 8.798262 | 800264 | 802256 | 804239 | 806214 | 808179 | 810135 | 812083 | 49 |
| 12 | 8.798295 | 800297 | 802289 | 804272 | 806246 | 808212 | 810168 | 812115 | 48 |
| 13 | 8.798329 | 800330 | 802322 | 804305 | 806279 | 808244 | 810200 | 812148 | 47 |
| 14 | 8.798362 | 800364 | 802355 | 804338 | 806312 | 808277 | 810233 | 812180 | 46 |
| 15 | 8.798396 | 800397 | 802389 | 804371 | 806345 | 808310 | 810265 | 812212 | 45 |
| 16 | 8.798429 | 800430 | 802422 | 804404 | 806378 | 808342 | 810298 | 812245 | 44 |
| 17 | 8.798463 | 800463 | 802455 | 804437 | 806411 | 808375 | 810330 | 812277 | 43 |
| 18 | 8.798496 | 800497 | 802488 | 804470 | 806443 | 808408 | 810363 | 812309 | 42 |
| 19 | 8.798529 | 800530 | 802521 | 804503 | 806476 | 808440 | 810395 | 812342 | 41 |
| 20 | 8.798563 | 800563 | 802554 | 804536 | 806509 | 808473 | 810428 | 812374 | 40 |
| 21 | 8.798596 | 800596 | 802587 | 804569 | 806542 | 808506 | 810460 | 812406 | 39 |
| 22 | 8.798630 | 800630 | 802620 | 804602 | 806575 | 808538 | 810493 | 812439 | 38 |
| 23 | 8.798663 | 800663 | 802653 | 804635 | 806607 | 808571 | 810525 | 812471 | 37 |
| 24 | 8.798697 | 800696 | 802687 | 804668 | 806640 | 808603 | 810558 | 812504 | 36 |
| 25 | 8.798730 | 800729 | 802720 | 804701 | 806673 | 808636 | 810590 | 812536 | 35 |
| 26 | 8.798763 | 800763 | 802753 | 804734 | 806706 | 808669 | 810623 | 812568 | 34 |
| 27 | 8.798797 | 800796 | 802786 | 804767 | 806739 | 808701 | 810655 | 812601 | 33 |
| 28 | 8.798830 | 800829 | 802819 | 804800 | 806771 | 808734 | 810688 | 812633 | 32 |
| 29 | 8.798864 | 800862 | 802852 | 804833 | 806804 | 808767 | 810720 | 812665 | 31 |
| 30 | 8.798897 | 800895 | 802885 | 804866 | 806837 | 808800 | 810752 | 812698 | 30 |
| 31 | 8.798931 | 800929 | 802918 | 804899 | 806870 | 808833 | 810785 | 812730 | 29 |
| 32 | 8.798964 | 800962 | 802951 | 804932 | 806903 | 808866 | 810818 | 812762 | 28 |
| 33 | 8.798997 | 800995 | 802984 | 804965 | 806936 | 808899 | 810851 | 812795 | 27 |
| 34 | 8.799030 | 801029 | 803017 | 804997 | 806968 | 808930 | 810883 | 812827 | 26 |
| 35 | 8.799064 | 801062 | 803050 | 805030 | 807001 | 808962 | 810915 | 812859 | 25 |
| 36 | 8.799097 | 801095 | 803084 | 805063 | 807034 | 808995 | 810948 | 812892 | 24 |
| 37 | 8.799131 | 801128 | 803117 | 805096 | 807066 | 809028 | 810980 | 812924 | 23 |
| 38 | 8.799164 | 801161 | 803150 | 805129 | 807099 | 809060 | 811013 | 812956 | 22 |
| 39 | 8.799197 | 801195 | 803183 | 805162 | 807132 | 809093 | 811045 | 812989 | 21 |
| 40 | 8.799231 | 801228 | 803216 | 805195 | 807165 | 809126 | 811078 | 813021 | 20 |
| 41 | 8.799264 | 801261 | 803249 | 805228 | 807197 | 809158 | 811110 | 813053 | 19 |
| 42 | 8.799297 | 801294 | 803282 | 805261 | 807230 | 809191 | 811143 | 813086 | 18 |
| 43 | 8.799331 | 801327 | 803315 | 805293 | 807263 | 809223 | 811175 | 813118 | 17 |
| 44 | 8.799364 | 801361 | 803348 | 805326 | 807296 | 809256 | 811207 | 813150 | 16 |
| 45 | 8.799397 | 801394 | 803381 | 805359 | 807328 | 809289 | 811240 | 813182 | 15 |
| 46 | 8.799431 | 801427 | 803414 | 805392 | 807361 | 809321 | 811272 | 813215 | 14 |
| 47 | 8.799464 | 801460 | 803447 | 805425 | 807394 | 809354 | 811305 | 813247 | 13 |
| 48 | 8.799497 | 801493 | 803480 | 805458 | 807427 | 809386 | 811337 | 813279 | 12 |
| 49 | 8.799531 | 801527 | 803513 | 805491 | 807459 | 809419 | 811370 | 813312 | 11 |
| 50 | 8.799564 | 801560 | 803546 | 805524 | 807492 | 809451 | 811402 | 813344 | 10 |
| 51 | 8.799597 | 801593 | 803579 | 805557 | 807525 | 809484 | 811435 | 813376 | 9 |
| 52 | 8.799631 | 801626 | 803612 | 805589 | 807557 | 809517 | 811467 | 813409 | 8 |
| 53 | 8.799664 | 801659 | 803645 | 805622 | 807590 | 809549 | 811499 | 813441 | 7 |
| 54 | 8.799697 | 801693 | 803678 | 805655 | 807623 | 809582 | 811532 | 813473 | 6 |
| 55 | 8.799731 | 801726 | 803711 | 805688 | 807656 | 809614 | 811564 | 813505 | 5 |
| 56 | 8.799764 | 801759 | 803744 | 805721 | 807688 | 809647 | 811597 | 813538 | 4 |
| 57 | 8.799797 | 801792 | 803777 | 805754 | 807721 | 809680 | 811629 | 813570 | 3 |
| 58 | 8.799831 | 801825 | 803810 | 805787 | 807754 | 809712 | 811662 | 813602 | 2 |
| 59 | 8.799864 | 801858 | 803843 | 805819 | 807787 | 809745 | 811694 | 813635 | 1 |
| 60 | 8.799897 | 801892 | 803876 | 805852 | 807819 | 809777 | 811726 | 813667 | 0 |
| " | 23' | 22' | 21' | 20' | 19' | 18' | 17' | 16' | " |

| " | 36' | 37' | 38' | 39' | 40' | 41' | 42' | 43' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.798752 | 800763 | 802765 | 804758 | 806742 | 808717 | 810683 | 812641 | 60 |
| 1 | 8.798786 | 800797 | 802799 | 804791 | 806775 | 808750 | 810716 | 812673 | 59 |
| 2 | 8.798819 | 800830 | 802832 | 804825 | 806808 | 808833 | 810749 | 812706 | 58 |
| 3 | 8.798853 | 800864 | 802865 | 804858 | 806841 | 808866 | 810781 | 812738 | 57 |
| 4 | 8.798886 | 800897 | 802898 | 804891 | 806874 | 808899 | 810814 | 812771 | 56 |
| 5 | 8.798920 | 800930 | 802932 | 804924 | 806907 | 808931 | 810847 | 812803 | 55 |
| 6 | 8.798953 | 800964 | 802965 | 804957 | 806940 | 808964 | 810880 | 812836 | 54 |
| 7 | 8.798987 | 800997 | 802998 | 804990 | 806973 | 808997 | 810912 | 812869 | 53 |
| 8 | 8.799021 | 801031 | 803032 | 805023 | 807006 | 809039 | 810945 | 812901 | 52 |
| 9 | 8.799054 | 801064 | 803065 | 805056 | 807039 | 809072 | 810978 | 812934 | 51 |
| 10 | 8.799088 | 801098 | 803098 | 805090 | 807072 | 809106 | 811010 | 812966 | 50 |
| 11 | 8.799121 | 801131 | 803131 | 805123 | 807105 | 809139 | 811043 | 812999 | 49 |
| 12 | 8.799155 | 801164 | 803165 | 805156 | 807138 | 809172 | 811076 | 813031 | 48 |
| 13 | 8.799188 | 801198 | 803198 | 805189 | 807171 | 809205 | 811108 | 813064 | 47 |
| 14 | 8.799222 | 801231 | 803231 | 805222 | 807204 | 809238 | 811141 | 813096 | 46 |
| 15 | 8.799256 | 801265 | 803264 | 805255 | 807237 | 809271 | 811174 | 813129 | 45 |
| 16 | 8.799289 | 801298 | 803298 | 805288 | 807270 | 809304 | 811206 | 813161 | 44 |
| 17 | 8.799323 | 801331 | 803331 | 805321 | 807303 | 809337 | 811239 | 813194 | 43 |
| 18 | 8.799356 | 801365 | 803364 | 805354 | 807336 | 809370 | 811272 | 813226 | 42 |
| 19 | 8.799390 | 801398 | 803397 | 805388 | 807369 | 809403 | 811304 | 813259 | 41 |
| 20 | 8.799423 | 801432 | 803431 | 805421 | 807402 | 809436 | 811337 | 813291 | 40 |
| 21 | 8.799457 | 801465 | 803465 | 805454 | 807435 | 809469 | 811370 | 813324 | 39 |
| 22 | 8.799490 | 801498 | 803497 | 805487 | 807468 | 809502 | 811403 | 813356 | 38 |
| 23 | 8.799524 | 801532 | 803530 | 805520 | 807500 | 809535 | 811435 | 813389 | 37 |
| 24 | 8.799558 | 801565 | 803564 | 805553 | 807533 | 809568 | 811467 | 813421 | 36 |
| 25 | 8.799591 | 801599 | 803597 | 805586 | 807566 | 809601 | 811500 | 813454 | 35 |
| 26 | 8.799625 | 801632 | 803630 | 805619 | 807599 | 809634 | 811533 | 813486 | 34 |
| 27 | 8.799658 | 801665 | 803663 | 805652 | 807632 | 809667 | 811565 | 813519 | 33 |
| 28 | 8.799692 | 801699 | 803696 | 805685 | 807665 | 809700 | 811598 | 813551 | 32 |
| 29 | 8.799725 | 801732 | 803730 | 805718 | 807698 | 809733 | 811631 | 813584 | 31 |
| 30 | 8.799759 | 801765 | 803763 | 805751 | 807731 | 809766 | 811663 | 813616 | 30 |
| 31 | 8.799792 | 801799 | 803796 | 805784 | 807764 | 809799 | 811696 | 813649 | 29 |
| 32 | 8.799826 | 801832 | 803829 | 805818 | 807797 | 809832 | 811728 | 813681 | 28 |
| 33 | 8.799859 | 801865 | 803863 | 805851 | 807830 | 809865 | 811761 | 813714 | 27 |
| 34 | 8.799893 | 801899 | 803896 | 805884 | 807862 | 809898 | 811794 | 813746 | 26 |
| 35 | 8.799926 | 801932 | 803929 | 805917 | 807895 | 809931 | 811826 | 813778 | 25 |
| 36 | 8.799960 | 801966 | 803962 | 805950 | 807928 | 809964 | 811859 | 813811 | 24 |
| 37 | 8.799993 | 801999 | 803995 | 805983 | 807961 | 809997 | 811891 | 813843 | 23 |
| 38 | 8.800027 | 802032 | 804029 | 806016 | 807994 | 810030 | 811924 | 813876 | 22 |
| 39 | 8.800060 | 802066 | 804062 | 806049 | 808027 | 810063 | 811957 | 813908 | 21 |
| 40 | 8.800094 | 802099 | 804095 | 806082 | 808060 | 810096 | 811989 | 813941 | 20 |
| 41 | 8.800127 | 802132 | 804128 | 806115 | 808093 | 810129 | 812022 | 813973 | 19 |
| 42 | 8.800161 | 802166 | 804161 | 806148 | 808126 | 810162 | 812055 | 814006 | 18 |
| 43 | 8.800194 | 802199 | 804195 | 806181 | 808159 | 810195 | 812087 | 814038 | 17 |
| 44 | 8.800228 | 802232 | 804228 | 806214 | 808191 | 810228 | 812120 | 814071 | 16 |
| 45 | 8.800261 | 802266 | 804261 | 806247 | 808224 | 810261 | 812152 | 814103 | 15 |
| 46 | 8.800295 | 802299 | 804294 | 806280 | 808257 | 810294 | 812185 | 814135 | 14 |
| 47 | 8.800328 | 802332 | 804327 | 806313 | 808290 | 810327 | 812217 | 814168 | 13 |
| 48 | 8.800362 | 802366 | 804360 | 806346 | 808323 | 810360 | 812250 | 814200 | 12 |
| 49 | 8.800395 | 802399 | 804394 | 806379 | 808356 | 810393 | 812283 | 814233 | 11 |
| 50 | 8.800429 | 802432 | 804427 | 806412 | 808389 | 810426 | 812315 | 814265 | 10 |
| 51 | 8.800462 | 802466 | 804460 | 806445 | 808422 | 810459 | 812348 | 814298 | 9 |
| 52 | 8.800496 | 802499 | 804493 | 806478 | 808454 | 810492 | 812380 | 814330 | 8 |
| 53 | 8.800529 | 802532 | 804526 | 806511 | 808487 | 810525 | 812413 | 814362 | 7 |
| 54 | 8.800562 | 802566 | 804559 | 806544 | 808520 | 810558 | 812445 | 814395 | 6 |
| 55 | 8.800596 | 802599 | 804593 | 806577 | 808553 | 810591 | 812478 | 814427 | 5 |
| 56 | 8.800629 | 802632 | 804626 | 806610 | 808586 | 810624 | 812511 | 814460 | 4 |
| 57 | 8.800663 | 802665 | 804659 | 806643 | 808619 | 810657 | 812543 | 814492 | 3 |
| 58 | 8.800696 | 802699 | 804692 | 806676 | 808652 | 810690 | 812576 | 814525 | 2 |
| 59 | 8.800730 | 802732 | 804725 | 806709 | 808684 | 810723 | 812608 | 814557 | 1 |
| 60 | 8.800763 | 802765 | 804758 | 806742 | 808717 | 810756 | 812641 | 814589 | 0 |
| " | 23' | 22' | 21' | 20' | 19' | 18' | 17' | 16' | " |

| " | 44' | 45' | 46' | 47' | 48' | 49' | 50' | 51' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.813667 | 815599 | 817522 | 819436 | 821343 | 823240 | 825130 | 827011 | 60 |
| 1 | 8.813699 | 815631 | 817554 | 819468 | 821374 | 823272 | 825161 | 827043 | 59 |
| 2 | 8.813731 | 815663 | 817586 | 819500 | 821406 | 823303 | 825193 | 827074 | 58 |
| 3 | 8.813764 | 815695 | 817618 | 819532 | 821438 | 823335 | 825224 | 827105 | 57 |
| 4 | 8.813796 | 815727 | 817650 | 819564 | 821469 | 823367 | 825256 | 827136 | 56 |
| 5 | 8.813828 | 815759 | 817682 | 819596 | 821501 | 823398 | 825287 | 827168 | 55 |
| 6 | 8.813860 | 815791 | 817714 | 819627 | 821533 | 823430 | 825318 | 827199 | 54 |
| 7 | 8.813893 | 815823 | 817746 | 819659 | 821564 | 823461 | 825350 | 827230 | 53 |
| 8 | 8.813925 | 815855 | 817777 | 819691 | 821596 | 823493 | 825381 | 827261 | 52 |
| 9 | 8.813957 | 815888 | 817809 | 819723 | 821628 | 823524 | 825413 | 827293 | 51 |
| 10 | 8.813989 | 815920 | 817841 | 819755 | 821659 | 823556 | 825444 | 827324 | 50 |
| 11 | 8.814022 | 815952 | 817873 | 819786 | 821691 | 823587 | 825475 | 827355 | 49 |
| 12 | 8.814054 | 815984 | 817905 | 819818 | 821723 | 823619 | 825507 | 827387 | 48 |
| 13 | 8.814086 | 816016 | 817937 | 819850 | 821754 | 823650 | 825538 | 827418 | 47 |
| 14 | 8.814118 | 816048 | 817969 | 819882 | 821786 | 823682 | 825570 | 827449 | 46 |
| 15 | 8.814151 | 816080 | 818001 | 819914 | 821818 | 823714 | 825601 | 827480 | 45 |
| 16 | 8.814183 | 816112 | 818033 | 819945 | 821849 | 823745 | 825632 | 827512 | 44 |
| 17 | 8.814215 | 816144 | 818065 | 819977 | 821881 | 823777 | 825664 | 827543 | 43 |
| 18 | 8.814247 | 816176 | 818097 | 820009 | 821913 | 823808 | 825695 | 827574 | 42 |
| 19 | 8.814279 | 816208 | 818129 | 820041 | 821944 | 823840 | 825727 | 827605 | 41 |
| 20 | 8.814312 | 816241 | 818161 | 820073 | 821976 | 823871 | 825758 | 827637 | 40 |
| 21 | 8.814344 | 816273 | 818193 | 820104 | 822008 | 823903 | 825789 | 827668 | 39 |
| 22 | 8.814376 | 816305 | 818225 | 820136 | 822039 | 823934 | 825821 | 827699 | 38 |
| 23 | 8.814408 | 816337 | 818257 | 820168 | 822071 | 823966 | 825852 | 827730 | 37 |
| 24 | 8.814441 | 816369 | 818289 | 820200 | 822103 | 823997 | 825883 | 827761 | 36 |
| 25 | 8.814473 | 816401 | 818320 | 820232 | 822134 | 824029 | 825915 | 827793 | 35 |
| 26 | 8.814505 | 816433 | 818352 | 820263 | 822166 | 824060 | 825946 | 827824 | 34 |
| 27 | 8.814537 | 816465 | 818384 | 820295 | 822198 | 824092 | 825978 | 827855 | 33 |
| 28 | 8.814569 | 816497 | 818416 | 820327 | 822229 | 824123 | 826009 | 827886 | 32 |
| 29 | 8.814602 | 816529 | 818448 | 820359 | 822261 | 824155 | 826040 | 827918 | 31 |
| 30 | 8.814634 | 816561 | 818480 | 820390 | 822292 | 824186 | 826072 | 827949 | 30 |
| 31 | 8.814666 | 816593 | 818512 | 820422 | 822324 | 824218 | 826103 | 827980 | 29 |
| 32 | 8.814698 | 816625 | 818544 | 820454 | 822356 | 824249 | 826134 | 828011 | 28 |
| 33 | 8.814730 | 816657 | 818576 | 820486 | 822387 | 824281 | 826166 | 828042 | 27 |
| 34 | 8.814762 | 816689 | 818608 | 820518 | 822419 | 824312 | 826197 | 828074 | 26 |
| 35 | 8.814795 | 816721 | 818640 | 820549 | 822451 | 824344 | 826228 | 828105 | 25 |
| 36 | 8.814827 | 816753 | 818672 | 820581 | 822482 | 824375 | 826260 | 828136 | 24 |
| 37 | 8.814859 | 816785 | 818703 | 820613 | 822514 | 824407 | 826291 | 828167 | 23 |
| 38 | 8.814891 | 816818 | 818735 | 820645 | 822545 | 824438 | 826322 | 828199 | 22 |
| 39 | 8.814923 | 816850 | 818767 | 820677 | 822577 | 824470 | 826353 | 828230 | 21 |
| 40 | 8.814956 | 816882 | 818799 | 820709 | 822609 | 824501 | 826385 | 828261 | 20 |
| 41 | 8.814988 | 816914 | 818831 | 820741 | 822641 | 824533 | 826417 | 828292 | 19 |
| 42 | 8.815020 | 816946 | 818863 | 820773 | 822673 | 824565 | 826448 | 828323 | 18 |
| 43 | 8.815052 | 816978 | 818895 | 820805 | 822705 | 824597 | 826479 | 828354 | 17 |
| 44 | 8.815084 | 817010 | 818927 | 820837 | 822737 | 824628 | 826510 | 828386 | 16 |
| 45 | 8.815116 | 817042 | 818958 | 820869 | 822769 | 824658 | 826542 | 828417 | 15 |
| 46 | 8.815149 | 817074 | 818990 | 820901 | 822801 | 824690 | 826573 | 828448 | 14 |
| 47 | 8.815181 | 817106 | 819022 | 820933 | 822833 | 824721 | 826604 | 828479 | 13 |
| 48 | 8.815213 | 817138 | 819054 | 820965 | 822865 | 824753 | 826636 | 828510 | 12 |
| 49 | 8.815245 | 817170 | 819086 | 820997 | 822897 | 824784 | 826667 | 828542 | 11 |
| 50 | 8.815277 | 817202 | 819118 | 821029 | 822929 | 824816 | 826698 | 828573 | 10 |
| 51 | 8.815309 | 817234 | 819150 | 821061 | 822961 | 824847 | 826730 | 828604 | 9 |
| 52 | 8.815341 | 817266 | 819182 | 821093 | 822993 | 824878 | 826761 | 828635 | 8 |
| 53 | 8.815374 | 817298 | 819213 | 821125 | 823025 | 824910 | 826792 | 828666 | 7 |
| 54 | 8.815406 | 817330 | 819245 | 821157 | 823057 | 824941 | 826823 | 828697 | 6 |
| 55 | 8.815438 | 817362 | 819277 | 821189 | 823089 | 824973 | 826855 | 828729 | 5 |
| 56 | 8.815470 | 817394 | 819309 | 821221 | 823121 | 825004 | 826886 | 828760 | 4 |
| 57 | 8.815502 | 817426 | 819341 | 821253 | 823153 | 825036 | 826917 | 828791 | 3 |
| 58 | 8.815534 | 817458 | 819373 | 821285 | 823185 | 825067 | 826949 | 828822 | 2 |
| 59 | 8.815566 | 817490 | 819404 | 821317 | 823217 | 825098 | 826980 | 828853 | 1 |
| 60 | 8.815599 | 817522 | 819436 | 821349 | 823249 | 825130 | 827011 | 828884 | 0 |
| " | 15' | 14' | 13' | 12' | 11' | 10' | 9' | 8' | " |

| " | 44' | 45' | 46' | 47' | 48' | 49' | 50' | 51' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.814589 | 816529 | 818461 | 820384 | 822298 | 824205 | 826103 | 827992 | 60 |
| 1 | 8.814622 | 816562 | 818493 | 820416 | 822330 | 824236 | 826134 | 828024 | 59 |
| 2 | 8.814654 | 816594 | 818525 | 820448 | 822362 | 824268 | 826166 | 828055 | 58 |
| 3 | 8.814687 | 816626 | 818557 | 820480 | 822394 | 824300 | 826197 | 828087 | 57 |
| 4 | 8.814719 | 816658 | 818589 | 820512 | 822426 | 824331 | 826229 | 828118 | 56 |
| 5 | 8.814751 | 816691 | 818621 | 820544 | 822458 | 824363 | 826260 | 828150 | 55 |
| 6 | 8.814784 | 816723 | 818653 | 820576 | 822489 | 824395 | 826292 | 828181 | 54 |
| 7 | 8.814816 | 816755 | 818686 | 820608 | 822521 | 824426 | 826324 | 828212 | 53 |
| 8 | 8.814849 | 816787 | 818718 | 820640 | 822553 | 824458 | 826355 | 828244 | 52 |
| 9 | 8.814881 | 816820 | 818750 | 820672 | 822585 | 824490 | 826387 | 828275 | 51 |
| 10 | 8.814913 | 816852 | 818782 | 820703 | 822617 | 824522 | 826418 | 828307 | 50 |
| 11 | 8.814946 | 816884 | 818814 | 820735 | 822648 | 824553 | 826450 | 828338 | 49 |
| 12 | 8.814978 | 816916 | 818846 | 820767 | 822680 | 824585 | 826481 | 828369 | 48 |
| 13 | 8.815010 | 816949 | 818878 | 820799 | 822712 | 824617 | 826513 | 828401 | 47 |
| 14 | 8.815043 | 816981 | 818910 | 820831 | 822744 | 824648 | 826544 | 828432 | 46 |
| 15 | 8.815075 | 817013 | 818942 | 820863 | 822776 | 824680 | 826576 | 828464 | 45 |
| 16 | 8.815108 | 817045 | 818974 | 820895 | 822808 | 824712 | 826607 | 828495 | 44 |
| 17 | 8.815140 | 817077 | 819007 | 820927 | 822839 | 824743 | 826639 | 828526 | 43 |
| 18 | 8.815172 | 817110 | 819039 | 820959 | 822871 | 824775 | 826670 | 828558 | 42 |
| 19 | 8.815205 | 817142 | 819071 | 820991 | 822903 | 824807 | 826702 | 828589 | 41 |
| 20 | 8.815237 | 817174 | 819103 | 821023 | 822935 | 824838 | 826733 | 828621 | 40 |
| 21 | 8.815269 | 817206 | 819135 | 821055 | 822967 | 824870 | 826765 | 828652 | 39 |
| 22 | 8.815302 | 817239 | 819167 | 821087 | 822998 | 824902 | 826796 | 828683 | 38 |
| 23 | 8.815334 | 817271 | 819199 | 821119 | 823030 | 824933 | 826828 | 828715 | 37 |
| 24 | 8.815366 | 817303 | 819231 | 821151 | 823062 | 824965 | 826860 | 828746 | 36 |
| 25 | 8.815399 | 817335 | 819263 | 821183 | 823094 | 824996 | 826891 | 828777 | 35 |
| 26 | 8.815431 | 817367 | 819295 | 821214 | 823125 | 825028 | 826923 | 828809 | 34 |
| 27 | 8.815463 | 817400 | 819327 | 821246 | 823157 | 825060 | 826954 | 828840 | 33 |
| 28 | 8.815496 | 817432 | 819359 | 821278 | 823189 | 825091 | 826986 | 828872 | 32 |
| 29 | 8.815528 | 817464 | 819391 | 821310 | 823221 | 825123 | 827017 | 828903 | 31 |
| 30 | 8.815560 | 817496 | 819423 | 821342 | 823253 | 825155 | 827049 | 828934 | 30 |
| 31 | 8.815593 | 817528 | 819455 | 821374 | 823284 | 825186 | 827080 | 828966 | 29 |
| 32 | 8.815625 | 817561 | 819487 | 821406 | 823316 | 825218 | 827112 | 828997 | 28 |
| 33 | 8.815657 | 817593 | 819520 | 821438 | 823348 | 825250 | 827143 | 829028 | 27 |
| 34 | 8.815690 | 817626 | 819552 | 821470 | 823380 | 825281 | 827175 | 829060 | 26 |
| 35 | 8.815722 | 817657 | 819584 | 821502 | 823411 | 825313 | 827206 | 829091 | 25 |
| 36 | 8.815754 | 817689 | 819616 | 821534 | 823443 | 825344 | 827237 | 829122 | 24 |
| 37 | 8.815787 | 817721 | 819648 | 821565 | 823475 | 825376 | 827269 | 829154 | 23 |
| 38 | 8.815819 | 817754 | 819680 | 821597 | 823507 | 825408 | 827300 | 829185 | 22 |
| 39 | 8.815851 | 817786 | 819712 | 821629 | 823538 | 825439 | 827332 | 829216 | 21 |
| 40 | 8.815884 | 817818 | 819744 | 821661 | 823570 | 825471 | 827363 | 829248 | 20 |
| 41 | 8.815916 | 817850 | 819776 | 821693 | 823602 | 825502 | 827395 | 829279 | 19 |
| 42 | 8.815948 | 817882 | 819808 | 821725 | 823634 | 825534 | 827426 | 829310 | 18 |
| 43 | 8.815981 | 817914 | 819840 | 821757 | 823665 | 825566 | 827458 | 829342 | 17 |
| 44 | 8.816013 | 817947 | 819872 | 821789 | 823697 | 825597 | 827489 | 829373 | 16 |
| 45 | 8.816045 | 817979 | 819904 | 821821 | 823729 | 825629 | 827521 | 829404 | 15 |
| 46 | 8.816077 | 818011 | 819936 | 821852 | 823761 | 825660 | 827552 | 829436 | 14 |
| 47 | 8.816110 | 818043 | 819968 | 821884 | 823792 | 825692 | 827584 | 829467 | 13 |
| 48 | 8.816142 | 818075 | 820000 | 821916 | 823824 | 825724 | 827615 | 829498 | 12 |
| 49 | 8.816174 | 818107 | 820032 | 821948 | 823856 | 825755 | 827647 | 829530 | 11 |
| 50 | 8.816207 | 818140 | 820064 | 821980 | 823888 | 825787 | 827678 | 829561 | 10 |
| 51 | 8.816239 | 818172 | 820096 | 822012 | 823919 | 825818 | 827709 | 829592 | 9 |
| 52 | 8.816271 | 818204 | 820128 | 822044 | 823951 | 825850 | 827741 | 829624 | 8 |
| 53 | 8.816303 | 818236 | 820160 | 822075 | 823983 | 825882 | 827772 | 829655 | 7 |
| 54 | 8.816336 | 818268 | 820192 | 822107 | 824014 | 825913 | 827804 | 829686 | 6 |
| 55 | 8.816368 | 818300 | 820224 | 822139 | 824046 | 825945 | 827835 | 829718 | 5 |
| 56 | 8.816400 | 818332 | 820256 | 822171 | 824078 | 825976 | 827867 | 829749 | 4 |
| 57 | 8.816433 | 818364 | 820288 | 822203 | 824110 | 826008 | 827898 | 829780 | 3 |
| 58 | 8.816465 | 818397 | 820320 | 822235 | 824141 | 826039 | 827930 | 829812 | 2 |
| 59 | 8.816497 | 818429 | 820352 | 822267 | 824173 | 826071 | 827961 | 829843 | 1 |
| 60 | 8.816529 | 818461 | 820384 | 822298 | 824205 | 826103 | 827992 | 829874 | 0 |
| " | 15' | 14' | 13' | 12' | 11' | 10' | 9' | 8' | " |

| " | 52' | 53' | 54' | 55' | 56' | 57' | 58' | 59' | " |
|----|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 828884 | 828884 | 828884 | 828884 | 828884 | 828884 | 828884 | 828884 | 60 |
| 1 | 828897 | 828897 | 828897 | 828897 | 828897 | 828897 | 828897 | 828897 | 59 |
| 2 | 828910 | 828910 | 828910 | 828910 | 828910 | 828910 | 828910 | 828910 | 58 |
| 3 | 828923 | 828923 | 828923 | 828923 | 828923 | 828923 | 828923 | 828923 | 57 |
| 4 | 828936 | 828936 | 828936 | 828936 | 828936 | 828936 | 828936 | 828936 | 56 |
| 5 | 828949 | 828949 | 828949 | 828949 | 828949 | 828949 | 828949 | 828949 | 55 |
| 6 | 828962 | 828962 | 828962 | 828962 | 828962 | 828962 | 828962 | 828962 | 54 |
| 7 | 828975 | 828975 | 828975 | 828975 | 828975 | 828975 | 828975 | 828975 | 53 |
| 8 | 828988 | 828988 | 828988 | 828988 | 828988 | 828988 | 828988 | 828988 | 52 |
| 9 | 828991 | 828991 | 828991 | 828991 | 828991 | 828991 | 828991 | 828991 | 51 |
| 10 | 829004 | 829004 | 829004 | 829004 | 829004 | 829004 | 829004 | 829004 | 50 |
| 11 | 829017 | 829017 | 829017 | 829017 | 829017 | 829017 | 829017 | 829017 | 49 |
| 12 | 829030 | 829030 | 829030 | 829030 | 829030 | 829030 | 829030 | 829030 | 48 |
| 13 | 829043 | 829043 | 829043 | 829043 | 829043 | 829043 | 829043 | 829043 | 47 |
| 14 | 829056 | 829056 | 829056 | 829056 | 829056 | 829056 | 829056 | 829056 | 46 |
| 15 | 829069 | 829069 | 829069 | 829069 | 829069 | 829069 | 829069 | 829069 | 45 |
| 16 | 829082 | 829082 | 829082 | 829082 | 829082 | 829082 | 829082 | 829082 | 44 |
| 17 | 829095 | 829095 | 829095 | 829095 | 829095 | 829095 | 829095 | 829095 | 43 |
| 18 | 829108 | 829108 | 829108 | 829108 | 829108 | 829108 | 829108 | 829108 | 42 |
| 19 | 829121 | 829121 | 829121 | 829121 | 829121 | 829121 | 829121 | 829121 | 41 |
| 20 | 829134 | 829134 | 829134 | 829134 | 829134 | 829134 | 829134 | 829134 | 40 |
| 21 | 829147 | 829147 | 829147 | 829147 | 829147 | 829147 | 829147 | 829147 | 39 |
| 22 | 829160 | 829160 | 829160 | 829160 | 829160 | 829160 | 829160 | 829160 | 38 |
| 23 | 829173 | 829173 | 829173 | 829173 | 829173 | 829173 | 829173 | 829173 | 37 |
| 24 | 829186 | 829186 | 829186 | 829186 | 829186 | 829186 | 829186 | 829186 | 36 |
| 25 | 829199 | 829199 | 829199 | 829199 | 829199 | 829199 | 829199 | 829199 | 35 |
| 26 | 829212 | 829212 | 829212 | 829212 | 829212 | 829212 | 829212 | 829212 | 34 |
| 27 | 829225 | 829225 | 829225 | 829225 | 829225 | 829225 | 829225 | 829225 | 33 |
| 28 | 829238 | 829238 | 829238 | 829238 | 829238 | 829238 | 829238 | 829238 | 32 |
| 29 | 829251 | 829251 | 829251 | 829251 | 829251 | 829251 | 829251 | 829251 | 31 |
| 30 | 829264 | 829264 | 829264 | 829264 | 829264 | 829264 | 829264 | 829264 | 30 |
| 31 | 829277 | 829277 | 829277 | 829277 | 829277 | 829277 | 829277 | 829277 | 29 |
| 32 | 829290 | 829290 | 829290 | 829290 | 829290 | 829290 | 829290 | 829290 | 28 |
| 33 | 829303 | 829303 | 829303 | 829303 | 829303 | 829303 | 829303 | 829303 | 27 |
| 34 | 829316 | 829316 | 829316 | 829316 | 829316 | 829316 | 829316 | 829316 | 26 |
| 35 | 829329 | 829329 | 829329 | 829329 | 829329 | 829329 | 829329 | 829329 | 25 |
| 36 | 829342 | 829342 | 829342 | 829342 | 829342 | 829342 | 829342 | 829342 | 24 |
| 37 | 829355 | 829355 | 829355 | 829355 | 829355 | 829355 | 829355 | 829355 | 23 |
| 38 | 829368 | 829368 | 829368 | 829368 | 829368 | 829368 | 829368 | 829368 | 22 |
| 39 | 829381 | 829381 | 829381 | 829381 | 829381 | 829381 | 829381 | 829381 | 21 |
| 40 | 829394 | 829394 | 829394 | 829394 | 829394 | 829394 | 829394 | 829394 | 20 |
| 41 | 829407 | 829407 | 829407 | 829407 | 829407 | 829407 | 829407 | 829407 | 19 |
| 42 | 829420 | 829420 | 829420 | 829420 | 829420 | 829420 | 829420 | 829420 | 18 |
| 43 | 829433 | 829433 | 829433 | 829433 | 829433 | 829433 | 829433 | 829433 | 17 |
| 44 | 829446 | 829446 | 829446 | 829446 | 829446 | 829446 | 829446 | 829446 | 16 |
| 45 | 829459 | 829459 | 829459 | 829459 | 829459 | 829459 | 829459 | 829459 | 15 |
| 46 | 829472 | 829472 | 829472 | 829472 | 829472 | 829472 | 829472 | 829472 | 14 |
| 47 | 829485 | 829485 | 829485 | 829485 | 829485 | 829485 | 829485 | 829485 | 13 |
| 48 | 829498 | 829498 | 829498 | 829498 | 829498 | 829498 | 829498 | 829498 | 12 |
| 49 | 829511 | 829511 | 829511 | 829511 | 829511 | 829511 | 829511 | 829511 | 11 |
| 50 | 829524 | 829524 | 829524 | 829524 | 829524 | 829524 | 829524 | 829524 | 10 |
| 51 | 829537 | 829537 | 829537 | 829537 | 829537 | 829537 | 829537 | 829537 | 9 |
| 52 | 829550 | 829550 | 829550 | 829550 | 829550 | 829550 | 829550 | 829550 | 8 |
| 53 | 829563 | 829563 | 829563 | 829563 | 829563 | 829563 | 829563 | 829563 | 7 |
| 54 | 829576 | 829576 | 829576 | 829576 | 829576 | 829576 | 829576 | 829576 | 6 |
| 55 | 829589 | 829589 | 829589 | 829589 | 829589 | 829589 | 829589 | 829589 | 5 |
| 56 | 829602 | 829602 | 829602 | 829602 | 829602 | 829602 | 829602 | 829602 | 4 |
| 57 | 829615 | 829615 | 829615 | 829615 | 829615 | 829615 | 829615 | 829615 | 3 |
| 58 | 829628 | 829628 | 829628 | 829628 | 829628 | 829628 | 829628 | 829628 | 2 |
| 59 | 829641 | 829641 | 829641 | 829641 | 829641 | 829641 | 829641 | 829641 | 1 |
| 60 | 829654 | 829654 | 829654 | 829654 | 829654 | 829654 | 829654 | 829654 | 0 |
| " | 7' | 6' | 5' | 4' | 3' | 2' | 1' | 0' | " |

| " | 52' | 53' | 54' | 55' | 56' | 57' | 58' | 59' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.829874 | 831748 | 833613 | 835471 | 837321 | 839163 | 840998 | 842825 | 60 |
| 1 | 8.829905 | 831779 | 833644 | 835502 | 837352 | 839194 | 841028 | 842855 | 59 |
| 2 | 8.829937 | 831810 | 833675 | 835533 | 837383 | 839225 | 841059 | 842885 | 58 |
| 3 | 8.829968 | 831841 | 833707 | 835564 | 837413 | 839255 | 841089 | 842916 | 57 |
| 4 | 8.829999 | 831872 | 833738 | 835595 | 837444 | 839286 | 841120 | 842946 | 56 |
| 5 | 8.830031 | 831904 | 833769 | 835626 | 837475 | 839316 | 841150 | 842976 | 55 |
| 6 | 8.830062 | 831935 | 833800 | 835657 | 837506 | 839347 | 841181 | 843007 | 54 |
| 7 | 8.830093 | 831966 | 833831 | 835687 | 837536 | 839378 | 841211 | 843037 | 53 |
| 8 | 8.830124 | 831997 | 833862 | 835718 | 837567 | 839408 | 841242 | 843068 | 52 |
| 9 | 8.830156 | 832028 | 833893 | 835749 | 837598 | 839439 | 841272 | 843098 | 51 |
| 10 | 8.830187 | 832059 | 833924 | 835780 | 837629 | 839470 | 841303 | 843128 | 50 |
| 11 | 8.830218 | 832090 | 833955 | 835811 | 837659 | 839500 | 841333 | 843159 | 49 |
| 12 | 8.830249 | 832122 | 833986 | 835842 | 837690 | 839531 | 841364 | 843189 | 48 |
| 13 | 8.830281 | 832153 | 834017 | 835873 | 837721 | 839561 | 841394 | 843219 | 47 |
| 14 | 8.830312 | 832184 | 834048 | 835904 | 837752 | 839592 | 841425 | 843250 | 46 |
| 15 | 8.830343 | 832215 | 834079 | 835934 | 837782 | 839623 | 841455 | 843280 | 45 |
| 16 | 8.830375 | 832246 | 834110 | 835965 | 837813 | 839653 | 841486 | 843310 | 44 |
| 17 | 8.830406 | 832277 | 834141 | 835996 | 837844 | 839684 | 841516 | 843341 | 43 |
| 18 | 8.830437 | 832308 | 834172 | 836027 | 837875 | 839714 | 841547 | 843371 | 42 |
| 19 | 8.830468 | 832339 | 834203 | 836058 | 837905 | 839745 | 841577 | 843401 | 41 |
| 20 | 8.830500 | 832371 | 834234 | 836089 | 837936 | 839776 | 841607 | 843432 | 40 |
| 21 | 8.830531 | 832402 | 834265 | 836120 | 837967 | 839806 | 841638 | 843462 | 39 |
| 22 | 8.830562 | 832433 | 834296 | 836150 | 837997 | 839837 | 841668 | 843492 | 38 |
| 23 | 8.830593 | 832464 | 834327 | 836181 | 838028 | 839867 | 841699 | 843523 | 37 |
| 24 | 8.830625 | 832495 | 834357 | 836212 | 838059 | 839898 | 841729 | 843553 | 36 |
| 25 | 8.830656 | 832526 | 834388 | 836243 | 838090 | 839929 | 841760 | 843583 | 35 |
| 26 | 8.830687 | 832557 | 834419 | 836274 | 838120 | 839959 | 841790 | 843614 | 34 |
| 27 | 8.830718 | 832588 | 834450 | 836305 | 838151 | 839990 | 841821 | 843644 | 33 |
| 28 | 8.830749 | 832619 | 834481 | 836335 | 838182 | 840020 | 841851 | 843674 | 32 |
| 29 | 8.830781 | 832650 | 834512 | 836366 | 838212 | 840051 | 841882 | 843705 | 31 |
| 30 | 8.830812 | 832682 | 834543 | 836397 | 838243 | 840081 | 841912 | 843735 | 30 |
| 31 | 8.830843 | 832713 | 834574 | 836428 | 838274 | 840112 | 841943 | 843765 | 29 |
| 32 | 8.830874 | 832744 | 834605 | 836459 | 838305 | 840143 | 841973 | 843796 | 28 |
| 33 | 8.830906 | 832775 | 834636 | 836490 | 838335 | 840173 | 842003 | 843826 | 27 |
| 34 | 8.830937 | 832806 | 834667 | 836520 | 838366 | 840204 | 842034 | 843856 | 26 |
| 35 | 8.830968 | 832837 | 834698 | 836551 | 838397 | 840234 | 842064 | 843887 | 25 |
| 36 | 8.830999 | 832868 | 834729 | 836582 | 838427 | 840265 | 842095 | 843917 | 24 |
| 37 | 8.831030 | 832899 | 834760 | 836613 | 838458 | 840295 | 842125 | 843947 | 23 |
| 38 | 8.831062 | 832930 | 834791 | 836644 | 838489 | 840326 | 842155 | 843978 | 22 |
| 39 | 8.831093 | 832961 | 834822 | 836675 | 838519 | 840357 | 842186 | 844008 | 21 |
| 40 | 8.831124 | 832992 | 834853 | 836705 | 838550 | 840387 | 842216 | 844038 | 20 |
| 41 | 8.831155 | 833023 | 834884 | 836736 | 838581 | 840418 | 842247 | 844068 | 19 |
| 42 | 8.831187 | 833055 | 834915 | 836767 | 838611 | 840448 | 842277 | 844099 | 18 |
| 43 | 8.831218 | 833086 | 834946 | 836798 | 838642 | 840479 | 842308 | 844129 | 17 |
| 44 | 8.831249 | 833117 | 834977 | 836829 | 838673 | 840509 | 842338 | 844159 | 16 |
| 45 | 8.831280 | 833148 | 835007 | 836859 | 838703 | 840540 | 842369 | 844190 | 15 |
| 46 | 8.831311 | 833179 | 835038 | 836890 | 838734 | 840570 | 842399 | 844220 | 14 |
| 47 | 8.831342 | 833210 | 835069 | 836921 | 838765 | 840601 | 842429 | 844250 | 13 |
| 48 | 8.831374 | 833241 | 835100 | 836952 | 838795 | 840631 | 842460 | 844280 | 12 |
| 49 | 8.831405 | 833272 | 835131 | 836983 | 838826 | 840662 | 842490 | 844311 | 11 |
| 50 | 8.831436 | 833303 | 835162 | 837013 | 838857 | 840692 | 842521 | 844341 | 10 |
| 51 | 8.831467 | 833334 | 835193 | 837044 | 838887 | 840723 | 842551 | 844371 | 9 |
| 52 | 8.831498 | 833365 | 835224 | 837075 | 838918 | 840754 | 842581 | 844402 | 8 |
| 53 | 8.831530 | 833396 | 835255 | 837106 | 838949 | 840784 | 842612 | 844432 | 7 |
| 54 | 8.831561 | 833427 | 835286 | 837136 | 838979 | 840815 | 842642 | 844462 | 6 |
| 55 | 8.831592 | 833458 | 835317 | 837167 | 839010 | 840845 | 842673 | 844492 | 5 |
| 56 | 8.831623 | 833489 | 835348 | 837198 | 839041 | 840876 | 842703 | 844523 | 4 |
| 57 | 8.831654 | 833520 | 835378 | 837229 | 839071 | 840906 | 842733 | 844553 | 3 |
| 58 | 8.831685 | 833551 | 835409 | 837260 | 839102 | 840937 | 842764 | 844583 | 2 |
| 59 | 8.831717 | 833582 | 835440 | 837290 | 839133 | 840967 | 842794 | 844613 | 1 |
| 60 | 8.831748 | 833613 | 835471 | 837321 | 839163 | 840998 | 842825 | 844644 | 0 |
| " | 7' | 6' | 5' | 4' | 3' | 2' | 1' | 0' | " |

| " | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 843585 | 845387 | 847183 | 848971 | 850751 | 852525 | 854291 | 856049 | 60 |
| 1 | 8.843615 | 845417 | 847213 | 849000 | 850781 | 852554 | 854320 | 856079 | 59 |
| 2 | 8.843645 | 845447 | 847242 | 849030 | 850810 | 852583 | 854349 | 856108 | 58 |
| 3 | 8.843675 | 845477 | 847272 | 849060 | 850840 | 852613 | 854379 | 856137 | 57 |
| 4 | 8.843705 | 845507 | 847302 | 849090 | 850870 | 852642 | 854408 | 856166 | 56 |
| 5 | 8.843735 | 845537 | 847332 | 849119 | 850899 | 852672 | 854437 | 856196 | 55 |
| 6 | 8.843765 | 845567 | 847362 | 849149 | 850929 | 852701 | 854467 | 856225 | 54 |
| 7 | 8.843795 | 845597 | 847392 | 849179 | 850958 | 852731 | 854496 | 856254 | 53 |
| 8 | 8.843825 | 845627 | 847422 | 849209 | 850988 | 852760 | 854525 | 856283 | 52 |
| 9 | 8.843855 | 845657 | 847451 | 849238 | 851018 | 852790 | 854555 | 856313 | 51 |
| 10 | 8.843886 | 845687 | 847481 | 849268 | 851047 | 852819 | 854584 | 856342 | 50 |
| 11 | 8.843916 | 845717 | 847511 | 849298 | 851077 | 852849 | 854614 | 856371 | 49 |
| 12 | 8.843946 | 845747 | 847541 | 849327 | 851106 | 852878 | 854643 | 856400 | 48 |
| 13 | 8.843976 | 845777 | 847571 | 849357 | 851136 | 852908 | 854672 | 856429 | 47 |
| 14 | 8.844006 | 845807 | 847601 | 849387 | 851166 | 852937 | 854702 | 856459 | 46 |
| 15 | 8.844036 | 845837 | 847630 | 849417 | 851195 | 852967 | 854731 | 856488 | 45 |
| 16 | 8.844066 | 845867 | 847660 | 849446 | 851225 | 852996 | 854760 | 856517 | 44 |
| 17 | 8.844096 | 845897 | 847690 | 849476 | 851254 | 853026 | 854790 | 856546 | 43 |
| 18 | 8.844126 | 845927 | 847720 | 849506 | 851284 | 853055 | 854819 | 856576 | 42 |
| 19 | 8.844156 | 845957 | 847750 | 849535 | 851314 | 853085 | 854848 | 856605 | 41 |
| 20 | 8.844186 | 845987 | 847780 | 849565 | 851343 | 853114 | 854878 | 856634 | 40 |
| 21 | 8.844216 | 846017 | 847809 | 849595 | 851373 | 853143 | 849907 | 856663 | 39 |
| 22 | 8.844246 | 846047 | 847839 | 849624 | 851402 | 853173 | 854936 | 856692 | 38 |
| 23 | 8.844277 | 846076 | 847869 | 849654 | 851432 | 853202 | 854966 | 856722 | 37 |
| 24 | 8.844307 | 846106 | 847899 | 849684 | 851461 | 853232 | 854995 | 856751 | 36 |
| 25 | 8.844337 | 846136 | 847929 | 849713 | 851491 | 853261 | 855024 | 856780 | 35 |
| 26 | 8.844367 | 846166 | 847958 | 849743 | 851521 | 853291 | 855054 | 856809 | 34 |
| 27 | 8.844397 | 846196 | 847988 | 849773 | 851550 | 853320 | 855083 | 856838 | 33 |
| 28 | 8.844427 | 846226 | 848018 | 849803 | 851580 | 853350 | 855112 | 856868 | 32 |
| 29 | 8.844457 | 846256 | 848048 | 849832 | 851609 | 853379 | 855142 | 856897 | 31 |
| 30 | 8.844487 | 846286 | 848078 | 849862 | 851639 | 853408 | 855171 | 856926 | 30 |
| 31 | 8.844517 | 846316 | 848107 | 849892 | 851668 | 853438 | 855200 | 856955 | 29 |
| 32 | 8.844547 | 846346 | 848137 | 849921 | 851698 | 853467 | 855229 | 856984 | 28 |
| 33 | 8.844577 | 846376 | 848167 | 849951 | 851727 | 853497 | 855259 | 857014 | 27 |
| 34 | 8.844607 | 846406 | 848197 | 849981 | 851757 | 853526 | 855288 | 857043 | 26 |
| 35 | 8.844637 | 846436 | 848227 | 850010 | 851787 | 853556 | 855317 | 857072 | 25 |
| 36 | 8.844667 | 846465 | 848256 | 850040 | 851816 | 853585 | 855347 | 857101 | 24 |
| 37 | 8.844697 | 846495 | 848286 | 850070 | 851846 | 853614 | 855376 | 857130 | 23 |
| 38 | 8.844727 | 846525 | 848316 | 850100 | 851875 | 853644 | 855405 | 857160 | 22 |
| 39 | 8.844757 | 846555 | 848346 | 850129 | 851905 | 853673 | 855435 | 857189 | 21 |
| 40 | 8.844787 | 846585 | 848376 | 850159 | 851934 | 853703 | 855464 | 857218 | 20 |
| 41 | 8.844817 | 846615 | 848405 | 850188 | 851964 | 853732 | 855493 | 857247 | 19 |
| 42 | 8.844847 | 846645 | 848435 | 850218 | 851993 | 853761 | 855522 | 857276 | 18 |
| 43 | 8.844877 | 846675 | 848465 | 850247 | 852023 | 853791 | 855552 | 857305 | 17 |
| 44 | 8.844907 | 846705 | 848495 | 850277 | 852052 | 853820 | 855581 | 857335 | 16 |
| 45 | 8.844937 | 846735 | 848524 | 850307 | 852082 | 853850 | 855610 | 857364 | 15 |
| 46 | 8.844967 | 846764 | 848554 | 850336 | 852111 | 853879 | 855640 | 857393 | 14 |
| 47 | 8.844997 | 846794 | 848584 | 850366 | 852141 | 853908 | 855669 | 857422 | 13 |
| 48 | 8.845027 | 846824 | 848614 | 850396 | 852170 | 853938 | 855698 | 857451 | 12 |
| 49 | 8.845057 | 846854 | 848643 | 850425 | 852200 | 853967 | 855727 | 857480 | 11 |
| 50 | 8.845087 | 846884 | 848673 | 850455 | 852229 | 853997 | 855757 | 857510 | 10 |
| 51 | 8.845117 | 846914 | 848703 | 850485 | 852259 | 854026 | 855786 | 857539 | 9 |
| 52 | 8.845147 | 846944 | 848733 | 850514 | 852288 | 854055 | 855815 | 857568 | 8 |
| 53 | 8.845177 | 846974 | 848762 | 850544 | 852318 | 854085 | 855845 | 857597 | 7 |
| 54 | 8.845207 | 847004 | 848792 | 850574 | 852348 | 854114 | 855874 | 857626 | 6 |
| 55 | 8.845237 | 847033 | 848822 | 850603 | 852377 | 854144 | 855903 | 857655 | 5 |
| 56 | 8.845267 | 847063 | 848852 | 850633 | 852407 | 854173 | 855932 | 857684 | 4 |
| 57 | 8.845297 | 847093 | 848881 | 850662 | 852436 | 854202 | 855962 | 857714 | 3 |
| 58 | 8.845327 | 847123 | 848911 | 850692 | 852466 | 854232 | 855991 | 857743 | 2 |
| 59 | 8.845357 | 847153 | 848941 | 850722 | 852495 | 854261 | 856020 | 857772 | 1 |
| 60 | 8.845387 | 847183 | 848971 | 850751 | 852525 | 854291 | 856049 | 857801 | 0 |
| " | 59' | 58' | 57' | 56' | 55' | 54' | 53' | 52' | " |

| " | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.844644 | 846455 | 848260 | 850057 | 851846 | 853628 | 855403 | 857171 | 60 |
| 1 | 8.844674 | 846486 | 848290 | 850086 | 851876 | 853658 | 855433 | 857201 | 59 |
| 2 | 8.844704 | 846516 | 848320 | 850116 | 851906 | 853688 | 855462 | 857230 | 58 |
| 3 | 8.844734 | 846546 | 848350 | 850146 | 851935 | 853717 | 855492 | 857260 | 57 |
| 4 | 8.844765 | 846576 | 848380 | 850176 | 851965 | 853747 | 855521 | 857289 | 56 |
| 5 | 8.844795 | 846606 | 848410 | 850206 | 851995 | 853777 | 855551 | 857318 | 55 |
| 6 | 8.844825 | 846636 | 848440 | 850236 | 852025 | 853806 | 855581 | 857348 | 54 |
| 7 | 8.844855 | 846666 | 848470 | 850266 | 852054 | 853836 | 855610 | 857377 | 53 |
| 8 | 8.844886 | 846696 | 848500 | 850296 | 852084 | 853865 | 855640 | 857406 | 52 |
| 9 | 8.844916 | 846727 | 848530 | 850325 | 852114 | 853895 | 855669 | 857436 | 51 |
| 10 | 8.844946 | 846757 | 848560 | 850355 | 852144 | 853925 | 855699 | 857465 | 50 |
| 11 | 8.844976 | 846787 | 848590 | 850385 | 852173 | 853954 | 855728 | 857495 | 49 |
| 12 | 8.845007 | 846817 | 848620 | 850415 | 852203 | 853984 | 855758 | 857524 | 48 |
| 13 | 8.845037 | 846847 | 848650 | 850445 | 852233 | 854014 | 855787 | 857553 | 47 |
| 14 | 8.845067 | 846877 | 848680 | 850475 | 852263 | 854043 | 855817 | 857583 | 46 |
| 15 | 8.845097 | 846907 | 848710 | 850505 | 852292 | 854073 | 855846 | 857612 | 45 |
| 16 | 8.845128 | 846937 | 848740 | 850534 | 852322 | 854102 | 855876 | 857642 | 44 |
| 17 | 8.845158 | 846967 | 848770 | 850564 | 852352 | 854132 | 855905 | 857671 | 43 |
| 18 | 8.845188 | 846997 | 848800 | 850594 | 852382 | 854162 | 855935 | 857700 | 42 |
| 19 | 8.845218 | 847028 | 848829 | 850624 | 852411 | 854191 | 855964 | 857730 | 41 |
| 20 | 8.845248 | 847058 | 848859 | 850654 | 852441 | 854221 | 855993 | 857759 | 40 |
| 21 | 8.845279 | 847088 | 848889 | 850684 | 852471 | 854250 | 856023 | 857788 | 39 |
| 22 | 8.845309 | 847118 | 848919 | 850714 | 852500 | 854280 | 856052 | 857818 | 38 |
| 23 | 8.845339 | 847148 | 848949 | 850743 | 852530 | 854310 | 856082 | 857847 | 37 |
| 24 | 8.845369 | 847178 | 848979 | 850773 | 852560 | 854339 | 856111 | 857876 | 36 |
| 25 | 8.845400 | 847208 | 849009 | 850803 | 852590 | 854369 | 856141 | 857906 | 35 |
| 26 | 8.845430 | 847238 | 849039 | 850833 | 852619 | 854398 | 856170 | 857935 | 34 |
| 27 | 8.845460 | 847268 | 849069 | 850863 | 852649 | 854428 | 856200 | 857965 | 33 |
| 28 | 8.845490 | 847298 | 849099 | 850893 | 852679 | 854458 | 856229 | 857994 | 32 |
| 29 | 8.845520 | 847328 | 849129 | 850922 | 852708 | 854487 | 856259 | 858023 | 31 |
| 30 | 8.845551 | 847358 | 849159 | 850952 | 852738 | 854517 | 856288 | 858053 | 30 |
| 31 | 8.845581 | 847389 | 849189 | 850982 | 852768 | 854546 | 856318 | 858082 | 29 |
| 32 | 8.845611 | 847419 | 849219 | 851012 | 852798 | 854576 | 856347 | 858111 | 28 |
| 33 | 8.845641 | 847449 | 849249 | 851042 | 852827 | 854606 | 856377 | 858141 | 27 |
| 34 | 8.845671 | 847479 | 849279 | 851072 | 852857 | 854635 | 856406 | 858170 | 26 |
| 35 | 8.845701 | 847509 | 849309 | 851101 | 852887 | 854665 | 856436 | 858199 | 25 |
| 36 | 8.845732 | 847539 | 849339 | 851131 | 852916 | 854694 | 856465 | 858229 | 24 |
| 37 | 8.845762 | 847569 | 849369 | 851161 | 852946 | 854724 | 856494 | 858258 | 23 |
| 38 | 8.845792 | 847599 | 849399 | 851191 | 852976 | 854753 | 856524 | 858287 | 22 |
| 39 | 8.845822 | 847629 | 849428 | 851221 | 853005 | 854783 | 856553 | 858317 | 21 |
| 40 | 8.845852 | 847659 | 849458 | 851250 | 853035 | 854813 | 856583 | 858346 | 20 |
| 41 | 8.845883 | 847689 | 849488 | 851280 | 853065 | 854842 | 856612 | 858375 | 19 |
| 42 | 8.845913 | 847719 | 849518 | 851310 | 853094 | 854872 | 856642 | 858405 | 18 |
| 43 | 8.845943 | 847749 | 849548 | 851340 | 853124 | 854901 | 856671 | 858434 | 17 |
| 44 | 8.845973 | 847779 | 849578 | 851370 | 853154 | 854931 | 856701 | 858463 | 16 |
| 45 | 8.846003 | 847809 | 849608 | 851399 | 853183 | 854960 | 856730 | 858493 | 15 |
| 46 | 8.846033 | 847839 | 849638 | 851429 | 853213 | 854990 | 856759 | 858522 | 14 |
| 47 | 8.846064 | 847869 | 849668 | 851459 | 853243 | 855019 | 856789 | 858551 | 13 |
| 48 | 8.846094 | 847899 | 849698 | 851489 | 853272 | 855049 | 856818 | 858581 | 12 |
| 49 | 8.846124 | 847929 | 849728 | 851519 | 853302 | 855079 | 856848 | 858610 | 11 |
| 50 | 8.846154 | 847959 | 849758 | 851548 | 853332 | 855108 | 856877 | 858639 | 10 |
| 51 | 8.846184 | 847990 | 849787 | 851578 | 853361 | 855138 | 856907 | 858668 | 9 |
| 52 | 8.846214 | 848020 | 849817 | 851608 | 853391 | 855167 | 856936 | 858698 | 8 |
| 53 | 8.846244 | 848050 | 849847 | 851638 | 853421 | 855197 | 856965 | 858727 | 7 |
| 54 | 8.846275 | 848080 | 849877 | 851667 | 853450 | 855226 | 856995 | 858756 | 6 |
| 55 | 8.846305 | 848110 | 849907 | 851697 | 853480 | 855256 | 857024 | 858786 | 5 |
| 56 | 8.846335 | 848140 | 849937 | 851727 | 853510 | 855285 | 857054 | 858815 | 4 |
| 57 | 8.846365 | 848170 | 849967 | 851757 | 853539 | 855315 | 857083 | 858844 | 3 |
| 58 | 8.846395 | 848200 | 849997 | 851787 | 853569 | 855344 | 857112 | 858874 | 2 |
| 59 | 8.846425 | 848230 | 850027 | 851816 | 853599 | 855374 | 857142 | 858903 | 1 |
| 60 | 8.846455 | 848260 | 850057 | 851846 | 853628 | 855403 | 857171 | 858932 | 0 |
| " | 59' | 58' | 57' | 56' | 55' | 54' | 53' | 52' | " |

| " | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.857801 | 859546 | 861283 | 863014 | 864738 | 866455 | 868165 | 869868 | 60 |
| 1 | 8.857830 | 859575 | 861312 | 863043 | 864766 | 866483 | 868193 | 869896 | 59 |
| 2 | 8.857859 | 859604 | 861341 | 863071 | 864795 | 866512 | 868222 | 869925 | 58 |
| 3 | 8.857888 | 859633 | 861370 | 863100 | 864824 | 866540 | 868250 | 869953 | 57 |
| 4 | 8.857918 | 859662 | 861399 | 863129 | 864852 | 866569 | 868278 | 869981 | 56 |
| 5 | 8.857947 | 859691 | 861428 | 863158 | 864881 | 866597 | 868307 | 870010 | 55 |
| 6 | 8.857976 | 859720 | 861457 | 863187 | 864910 | 866626 | 868335 | 870038 | 54 |
| 7 | 8.858005 | 859749 | 861486 | 863215 | 864938 | 866654 | 868364 | 870066 | 53 |
| 8 | 8.858034 | 859778 | 861514 | 863244 | 864967 | 866683 | 868392 | 870095 | 52 |
| 9 | 8.858063 | 859807 | 861543 | 863273 | 864996 | 866711 | 868421 | 870123 | 51 |
| 10 | 8.858092 | 859836 | 861572 | 863302 | 865024 | 866740 | 868449 | 870151 | 50 |
| 11 | 8.858121 | 859865 | 861601 | 863330 | 865053 | 866769 | 868477 | 870180 | 49 |
| 12 | 8.858151 | 859894 | 861630 | 863359 | 865082 | 866797 | 868506 | 870208 | 48 |
| 13 | 8.858180 | 859923 | 861659 | 863388 | 865110 | 866826 | 868534 | 870236 | 47 |
| 14 | 8.858209 | 859952 | 861688 | 863417 | 865139 | 866854 | 868563 | 870264 | 46 |
| 15 | 8.858238 | 859981 | 861717 | 863445 | 865168 | 866883 | 868591 | 870293 | 45 |
| 16 | 8.858267 | 860010 | 861745 | 863474 | 865196 | 866911 | 868620 | 870321 | 44 |
| 17 | 8.858296 | 860039 | 861774 | 863503 | 865225 | 866940 | 868648 | 870349 | 43 |
| 18 | 8.858325 | 860068 | 861803 | 863532 | 865253 | 866968 | 868676 | 870378 | 42 |
| 19 | 8.858354 | 860097 | 861832 | 863561 | 865282 | 866997 | 868705 | 870406 | 41 |
| 20 | 8.858383 | 860126 | 861861 | 863589 | 865311 | 867025 | 868733 | 870434 | 40 |
| 21 | 8.858412 | 860155 | 861890 | 863618 | 865339 | 867054 | 868762 | 870463 | 39 |
| 22 | 8.858442 | 860184 | 861919 | 863647 | 865368 | 867082 | 868790 | 870491 | 38 |
| 23 | 8.858471 | 860213 | 861947 | 863675 | 865397 | 867111 | 868818 | 870519 | 37 |
| 24 | 8.858500 | 860242 | 861976 | 863704 | 865425 | 867139 | 868847 | 870547 | 36 |
| 25 | 8.858529 | 860271 | 862005 | 863733 | 865454 | 867168 | 868875 | 870576 | 35 |
| 26 | 8.858558 | 860299 | 862034 | 863762 | 865482 | 867196 | 868904 | 870604 | 34 |
| 27 | 8.858587 | 860328 | 862063 | 863790 | 865511 | 867225 | 868932 | 870632 | 33 |
| 28 | 8.858616 | 860357 | 862092 | 863819 | 865540 | 867253 | 868960 | 870661 | 32 |
| 29 | 8.858645 | 860386 | 862121 | 863848 | 865568 | 867282 | 868989 | 870689 | 31 |
| 30 | 8.858674 | 860415 | 862149 | 863877 | 865597 | 867310 | 869017 | 870717 | 30 |
| 31 | 8.858703 | 860444 | 862178 | 863905 | 865626 | 867339 | 869046 | 870745 | 29 |
| 32 | 8.858732 | 860473 | 862207 | 863934 | 865654 | 867367 | 869074 | 870774 | 28 |
| 33 | 8.858761 | 860502 | 862236 | 863963 | 865683 | 867396 | 869102 | 870802 | 27 |
| 34 | 8.858791 | 860531 | 862265 | 863992 | 865711 | 867424 | 869131 | 870830 | 26 |
| 35 | 8.858820 | 860560 | 862294 | 864020 | 865740 | 867453 | 869159 | 870858 | 25 |
| 36 | 8.858849 | 860589 | 862322 | 864049 | 865769 | 867481 | 869187 | 870887 | 24 |
| 37 | 8.858878 | 860618 | 862351 | 864078 | 865797 | 867510 | 869216 | 870915 | 23 |
| 38 | 8.858907 | 860647 | 862380 | 864106 | 865826 | 867538 | 869244 | 870943 | 22 |
| 39 | 8.858936 | 860676 | 862409 | 864135 | 865854 | 867567 | 869273 | 870972 | 21 |
| 40 | 8.858965 | 860705 | 862438 | 864164 | 865883 | 867595 | 869301 | 871000 | 20 |
| 41 | 8.858994 | 860734 | 862467 | 864193 | 865912 | 867624 | 869329 | 871028 | 19 |
| 42 | 8.859023 | 860763 | 862495 | 864221 | 865940 | 867652 | 869358 | 871056 | 18 |
| 43 | 8.859052 | 860792 | 862524 | 864250 | 865969 | 867681 | 869386 | 871085 | 17 |
| 44 | 8.859081 | 860821 | 862553 | 864279 | 865997 | 867709 | 869414 | 871113 | 16 |
| 45 | 8.859110 | 860850 | 862582 | 864307 | 866026 | 867738 | 869443 | 871141 | 15 |
| 46 | 8.859139 | 860878 | 862611 | 864336 | 866055 | 867766 | 869471 | 871169 | 14 |
| 47 | 8.859168 | 860907 | 862640 | 864365 | 866083 | 867795 | 869499 | 871198 | 13 |
| 48 | 8.859197 | 860936 | 862668 | 864393 | 866112 | 867823 | 869528 | 871226 | 12 |
| 49 | 8.859226 | 860965 | 862697 | 864422 | 866140 | 867852 | 869556 | 871254 | 11 |
| 50 | 8.859255 | 860994 | 862726 | 864451 | 866169 | 867880 | 869585 | 871282 | 10 |
| 51 | 8.859284 | 861023 | 862755 | 864480 | 866197 | 867909 | 869613 | 871311 | 9 |
| 52 | 8.859313 | 861052 | 862784 | 864508 | 866226 | 867937 | 869641 | 871339 | 8 |
| 53 | 8.859342 | 861081 | 862812 | 864537 | 866255 | 867965 | 869670 | 871367 | 7 |
| 54 | 8.859372 | 861110 | 862841 | 864566 | 866283 | 867994 | 869698 | 871395 | 6 |
| 55 | 8.859401 | 861139 | 862870 | 864594 | 866312 | 868022 | 869726 | 871423 | 5 |
| 56 | 8.859430 | 861168 | 862899 | 864623 | 866340 | 868051 | 869755 | 871452 | 4 |
| 57 | 8.859459 | 861197 | 862928 | 864652 | 866369 | 868079 | 869783 | 871480 | 3 |
| 58 | 8.859488 | 861225 | 862956 | 864680 | 866397 | 868108 | 869811 | 871508 | 2 |
| 59 | 8.859517 | 861254 | 862985 | 864709 | 866426 | 868136 | 869840 | 871536 | 1 |
| 60 | 8.859546 | 861283 | 863014 | 864738 | 866455 | 868165 | 869868 | 871565 | 0 |
| " | 51' | 50' | 49' | 48' | 47' | 46' | 45' | 44' | " |

| " | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 858932 | 860686 | 862433 | 864173 | 865906 | 867632 | 869351 | 871064 | 60 |
| 1 | 8 858961 | 860715 | 862462 | 864201 | 865934 | 867660 | 869380 | 871092 | 59 |
| 2 | 8 858991 | 860744 | 862491 | 864230 | 865963 | 867689 | 869408 | 871121 | 58 |
| 3 | 8 859020 | 860773 | 862520 | 864259 | 865992 | 867718 | 869437 | 871149 | 57 |
| 4 | 8 859049 | 860803 | 862549 | 864288 | 866021 | 867747 | 869466 | 871178 | 56 |
| 5 | 8 859079 | 860832 | 862578 | 864317 | 866050 | 867775 | 869494 | 871206 | 55 |
| 6 | 8 859108 | 860861 | 862607 | 864346 | 866078 | 867804 | 869523 | 871235 | 54 |
| 7 | 8 859137 | 860890 | 862636 | 864375 | 866107 | 867833 | 869551 | 871263 | 53 |
| 8 | 8 859166 | 860919 | 862665 | 864404 | 866136 | 867861 | 869580 | 871292 | 52 |
| 9 | 8 859196 | 860948 | 862694 | 864433 | 866165 | 867890 | 869608 | 871320 | 51 |
| 10 | 8 859225 | 860977 | 862723 | 864462 | 866194 | 867919 | 869637 | 871349 | 50 |
| 11 | 8 859254 | 861007 | 862752 | 864491 | 866222 | 867947 | 869666 | 871377 | 49 |
| 12 | 8 859283 | 861036 | 862781 | 864520 | 866251 | 867976 | 869694 | 871406 | 48 |
| 13 | 8 859313 | 861065 | 862810 | 864549 | 866280 | 868005 | 869723 | 871434 | 47 |
| 14 | 8 859342 | 861094 | 862839 | 864578 | 866309 | 868034 | 869751 | 871463 | 46 |
| 15 | 8 859371 | 861123 | 862868 | 864606 | 866338 | 868062 | 869780 | 871491 | 45 |
| 16 | 8 859400 | 861152 | 862897 | 864635 | 866367 | 868091 | 869809 | 871519 | 44 |
| 17 | 8 859430 | 861182 | 862926 | 864664 | 866395 | 868120 | 869837 | 871548 | 43 |
| 18 | 8 859459 | 861211 | 862955 | 864693 | 866424 | 868148 | 869866 | 871576 | 42 |
| 19 | 8 859488 | 861240 | 862984 | 864722 | 866453 | 868177 | 869894 | 871605 | 41 |
| 20 | 8 859517 | 861269 | 863013 | 864751 | 866482 | 868206 | 869923 | 871633 | 40 |
| 21 | 8 859547 | 861298 | 863042 | 864780 | 866510 | 868234 | 869951 | 871662 | 39 |
| 22 | 8 859576 | 861327 | 863071 | 864809 | 866539 | 868263 | 869980 | 871690 | 38 |
| 23 | 8 859605 | 861356 | 863100 | 864838 | 866568 | 868292 | 870008 | 871719 | 37 |
| 24 | 8 859634 | 861385 | 863129 | 864867 | 866597 | 868321 | 870037 | 871747 | 36 |
| 25 | 8 859664 | 861415 | 863158 | 864895 | 866626 | 868349 | 870066 | 871776 | 35 |
| 26 | 8 859693 | 861444 | 863187 | 864924 | 866654 | 868378 | 870094 | 871804 | 34 |
| 27 | 8 859722 | 861473 | 863216 | 864953 | 866683 | 868406 | 870123 | 871832 | 33 |
| 28 | 8 859751 | 861502 | 863245 | 864982 | 866712 | 868435 | 870151 | 871861 | 32 |
| 29 | 8 859781 | 861531 | 863274 | 865011 | 866741 | 868464 | 870180 | 871890 | 31 |
| 30 | 8 859810 | 861560 | 863303 | 865040 | 866770 | 868493 | 870209 | 871919 | 30 |
| 31 | 8 859840 | 861589 | 863332 | 865069 | 866799 | 868521 | 870237 | 871947 | 29 |
| 32 | 8 859869 | 861618 | 863361 | 865098 | 866828 | 868550 | 870266 | 871976 | 28 |
| 33 | 8 859898 | 861647 | 863390 | 865127 | 866857 | 868578 | 870295 | 872005 | 27 |
| 34 | 8 859927 | 861676 | 863419 | 865155 | 866885 | 868607 | 870322 | 872033 | 26 |
| 35 | 8 859956 | 861706 | 863448 | 865184 | 866913 | 868636 | 870351 | 872062 | 25 |
| 36 | 8 859985 | 861735 | 863477 | 865213 | 866942 | 868664 | 870380 | 872090 | 24 |
| 37 | 8 860014 | 861764 | 863506 | 865242 | 866971 | 868693 | 870408 | 872117 | 23 |
| 38 | 8 860044 | 861793 | 863535 | 865271 | 867000 | 868721 | 870437 | 872145 | 22 |
| 39 | 8 860073 | 861822 | 863564 | 865300 | 867028 | 868750 | 870465 | 872174 | 21 |
| 40 | 8 860102 | 861851 | 863593 | 865329 | 867057 | 868779 | 870494 | 872202 | 20 |
| 41 | 8 860131 | 861880 | 863622 | 865357 | 867086 | 868807 | 870522 | 872230 | 19 |
| 42 | 8 860160 | 861909 | 863651 | 865386 | 867115 | 868836 | 870551 | 872259 | 18 |
| 43 | 8 860190 | 861938 | 863680 | 865415 | 867143 | 868865 | 870579 | 872287 | 17 |
| 44 | 8 860219 | 861968 | 863709 | 865444 | 867172 | 868893 | 870608 | 872316 | 16 |
| 45 | 8 860248 | 861997 | 863738 | 865473 | 867201 | 868922 | 870636 | 872344 | 15 |
| 46 | 8 860277 | 862026 | 863767 | 865502 | 867230 | 868951 | 870665 | 872372 | 14 |
| 47 | 8 860306 | 862055 | 863796 | 865531 | 867258 | 868979 | 870693 | 872401 | 13 |
| 48 | 8 860336 | 862084 | 863825 | 865559 | 867287 | 869008 | 870722 | 872429 | 12 |
| 49 | 8 860365 | 862113 | 863854 | 865588 | 867316 | 869036 | 870750 | 872458 | 11 |
| 50 | 8 860394 | 862142 | 863883 | 865617 | 867344 | 869065 | 870779 | 872486 | 10 |
| 51 | 8 860423 | 862171 | 863912 | 865646 | 867373 | 869094 | 870807 | 872514 | 9 |
| 52 | 8 860452 | 862200 | 863941 | 865675 | 867402 | 869122 | 870836 | 872543 | 8 |
| 53 | 8 860482 | 862229 | 863970 | 865704 | 867431 | 869151 | 870864 | 872571 | 7 |
| 54 | 8 860511 | 862258 | 863999 | 865733 | 867459 | 869179 | 870893 | 872600 | 6 |
| 55 | 8 860540 | 862287 | 864028 | 865761 | 867488 | 869208 | 870921 | 872628 | 5 |
| 56 | 8 860569 | 862316 | 864057 | 865790 | 867517 | 869237 | 870950 | 872656 | 4 |
| 57 | 8 860598 | 862345 | 864086 | 865819 | 867546 | 869265 | 870978 | 872685 | 3 |
| 58 | 8 860628 | 862375 | 864115 | 865848 | 867574 | 869294 | 871007 | 872713 | 2 |
| 59 | 8 860657 | 862404 | 864144 | 865877 | 867603 | 869323 | 871035 | 872742 | 1 |
| 60 | 8 860686 | 862433 | 864173 | 865906 | 867632 | 869351 | 871064 | 872770 | 0 |
| " | 51' | 50' | 49' | 48' | 47' | 46' | 45' | 44' | " |

| " | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.871565 | 873255 | 874938 | 876615 | 878285 | 879949 | 881607 | 883258 | 60 |
| 1 | 8.871593 | 873283 | 874966 | 876643 | 878313 | 879977 | 881634 | 883286 | 59 |
| 2 | 8.871621 | 873311 | 874994 | 876671 | 878341 | 880005 | 881662 | 883313 | 58 |
| 3 | 8.871649 | 873339 | 875022 | 876699 | 878369 | 880032 | 881690 | 883341 | 57 |
| 4 | 8.871677 | 873367 | 875050 | 876727 | 878396 | 880060 | 881717 | 883368 | 56 |
| 5 | 8.871706 | 873395 | 875078 | 876754 | 878424 | 880088 | 881745 | 883395 | 55 |
| 6 | 8.871734 | 873423 | 875106 | 876782 | 878452 | 880115 | 881772 | 883423 | 54 |
| 7 | 8.871762 | 873451 | 875134 | 876810 | 878480 | 880143 | 881800 | 883450 | 53 |
| 8 | 8.871790 | 873479 | 875162 | 876838 | 878508 | 880171 | 881827 | 883478 | 52 |
| 9 | 8.871819 | 873508 | 875190 | 876866 | 878535 | 880198 | 881855 | 883505 | 51 |
| 10 | 8.871847 | 873536 | 875218 | 876894 | 878563 | 880226 | 881883 | 883533 | 50 |
| 11 | 8.871875 | 873564 | 875246 | 876922 | 878591 | 880254 | 881910 | 883560 | 49 |
| 12 | 8.871903 | 873592 | 875274 | 876950 | 878619 | 880281 | 881938 | 883588 | 48 |
| 13 | 8.871931 | 873620 | 875302 | 876977 | 878646 | 880309 | 881965 | 883615 | 47 |
| 14 | 8.871960 | 873648 | 875330 | 877005 | 878674 | 880337 | 881993 | 883643 | 46 |
| 15 | 8.871988 | 873676 | 875358 | 877033 | 878702 | 880364 | 882020 | 883670 | 45 |
| 16 | 8.872016 | 873704 | 875386 | 877061 | 878730 | 880392 | 882048 | 883697 | 44 |
| 17 | 8.872044 | 873732 | 875414 | 877089 | 878757 | 880420 | 882075 | 883725 | 43 |
| 18 | 8.872072 | 873760 | 875442 | 877117 | 878785 | 880447 | 882103 | 883752 | 42 |
| 19 | 8.872101 | 873788 | 875470 | 877145 | 878813 | 880475 | 882130 | 883780 | 41 |
| 20 | 8.872129 | 873817 | 875498 | 877172 | 878841 | 880503 | 882158 | 883807 | 40 |
| 21 | 8.872157 | 873845 | 875526 | 877200 | 878868 | 880530 | 882186 | 883835 | 39 |
| 22 | 8.872185 | 873873 | 875554 | 877228 | 878896 | 880558 | 882213 | 883862 | 38 |
| 23 | 8.872213 | 873901 | 875582 | 877256 | 878924 | 880585 | 882241 | 883889 | 37 |
| 24 | 8.872241 | 873929 | 875610 | 877284 | 878952 | 880613 | 882268 | 883917 | 36 |
| 25 | 8.872270 | 873957 | 875638 | 877312 | 878979 | 880641 | 882296 | 883944 | 35 |
| 26 | 8.872298 | 873985 | 875666 | 877340 | 879007 | 880668 | 882323 | 883972 | 34 |
| 27 | 8.872326 | 874013 | 875693 | 877367 | 879035 | 880696 | 882351 | 883999 | 33 |
| 28 | 8.872354 | 874041 | 875721 | 877395 | 879063 | 880724 | 882378 | 884027 | 32 |
| 29 | 8.872382 | 874069 | 875749 | 877423 | 879090 | 880751 | 882406 | 884054 | 31 |
| 30 | 8.872410 | 874097 | 875777 | 877451 | 879118 | 880779 | 882433 | 884081 | 30 |
| 31 | 8.872439 | 874125 | 875805 | 877479 | 879146 | 880807 | 882461 | 884109 | 29 |
| 32 | 8.872467 | 874153 | 875833 | 877507 | 879174 | 880834 | 882488 | 884136 | 28 |
| 33 | 8.872495 | 874181 | 875861 | 877534 | 879201 | 880862 | 882516 | 884164 | 27 |
| 34 | 8.872523 | 874209 | 875889 | 877562 | 879229 | 880889 | 882543 | 884191 | 26 |
| 35 | 8.872551 | 874237 | 875917 | 877590 | 879257 | 880917 | 882571 | 884218 | 25 |
| 36 | 8.872579 | 874265 | 875945 | 877618 | 879285 | 880945 | 882598 | 884246 | 24 |
| 37 | 8.872608 | 874294 | 875973 | 877646 | 879312 | 880972 | 882626 | 884273 | 23 |
| 38 | 8.872636 | 874322 | 876001 | 877674 | 879340 | 881000 | 882653 | 884301 | 22 |
| 39 | 8.872664 | 874350 | 876029 | 877701 | 879368 | 881027 | 882681 | 884328 | 21 |
| 40 | 8.872692 | 874378 | 876057 | 877729 | 879395 | 881055 | 882709 | 884355 | 20 |
| 41 | 8.872720 | 874406 | 876085 | 877757 | 879423 | 881083 | 882736 | 884383 | 19 |
| 42 | 8.872748 | 874434 | 876113 | 877785 | 879451 | 881110 | 882763 | 884410 | 18 |
| 43 | 8.872776 | 874462 | 876140 | 877813 | 879479 | 881138 | 882791 | 884438 | 17 |
| 44 | 8.872805 | 874490 | 876168 | 877841 | 879506 | 881166 | 882818 | 884465 | 16 |
| 45 | 8.872833 | 874518 | 876196 | 877868 | 879534 | 881193 | 882846 | 884492 | 15 |
| 46 | 8.872861 | 874546 | 876224 | 877896 | 879562 | 881221 | 882873 | 884520 | 14 |
| 47 | 8.872889 | 874574 | 876252 | 877924 | 879589 | 881248 | 882901 | 884547 | 13 |
| 48 | 8.872917 | 874602 | 876280 | 877952 | 879617 | 881276 | 882928 | 884575 | 12 |
| 49 | 8.872945 | 874630 | 876308 | 877980 | 879645 | 881303 | 882956 | 884602 | 11 |
| 50 | 8.872973 | 874658 | 876336 | 878007 | 879672 | 881331 | 882983 | 884629 | 10 |
| 51 | 8.873002 | 874686 | 876364 | 878035 | 879700 | 881359 | 883011 | 884657 | 9 |
| 52 | 8.873030 | 874714 | 876392 | 878063 | 879728 | 881386 | 883038 | 884684 | 8 |
| 53 | 8.873058 | 874742 | 876420 | 878091 | 879756 | 881414 | 883066 | 884712 | 7 |
| 54 | 8.873086 | 874770 | 876448 | 878119 | 879783 | 881441 | 883093 | 884739 | 6 |
| 55 | 8.873114 | 874798 | 876475 | 878146 | 879811 | 881469 | 883121 | 884766 | 5 |
| 56 | 8.873142 | 874826 | 876503 | 878174 | 879839 | 881497 | 883148 | 884794 | 4 |
| 57 | 8.873170 | 874854 | 876531 | 878202 | 879866 | 881524 | 883176 | 884821 | 3 |
| 58 | 8.873198 | 874882 | 876559 | 878230 | 879894 | 881552 | 883203 | 884848 | 2 |
| 59 | 8.873227 | 874910 | 876587 | 878258 | 879922 | 881579 | 883231 | 884876 | 1 |
| 60 | 8.873255 | 874938 | 876615 | 878285 | 879949 | 881607 | 883258 | 884903 | 0 |
| " | 43' | 42' | 41' | 40' | 39' | 38' | 37' | 36' | " |

| " | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 872770 | 874469 | 876162 | 877849 | 879529 | 881202 | 882869 | 884530 | 60 |
| 1 | 8 872708 | 874498 | 876190 | 877877 | 879557 | 881230 | 882897 | 884558 | 59 |
| 2 | 8 872827 | 874526 | 876219 | 877905 | 879585 | 881258 | 882925 | 884586 | 58 |
| 3 | 8 872855 | 874554 | 876247 | 877933 | 879612 | 881286 | 882953 | 884613 | 57 |
| 4 | 8 872883 | 874582 | 876275 | 877961 | 879640 | 881314 | 882980 | 884641 | 56 |
| 5 | 8 872912 | 874611 | 876303 | 877989 | 879668 | 881341 | 883008 | 884668 | 55 |
| 6 | 8 872940 | 874639 | 876331 | 878017 | 879696 | 881369 | 883036 | 884696 | 54 |
| 7 | 8 872969 | 874667 | 876359 | 878045 | 879724 | 881397 | 883063 | 884724 | 53 |
| 8 | 8 872997 | 874695 | 876387 | 878073 | 879752 | 881425 | 883091 | 884751 | 52 |
| 9 | 8 873025 | 874724 | 876416 | 878101 | 879780 | 881453 | 883119 | 884779 | 51 |
| 10 | 8 873054 | 874752 | 876444 | 878129 | 879808 | 881480 | 883147 | 884807 | 50 |
| 11 | 8 873082 | 874780 | 876472 | 878157 | 879836 | 881508 | 883174 | 884834 | 49 |
| 12 | 8 873110 | 874808 | 876500 | 878185 | 879864 | 881536 | 883202 | 884862 | 48 |
| 13 | 8 873139 | 874837 | 876528 | 878213 | 879892 | 881564 | 883230 | 884889 | 47 |
| 14 | 8 873167 | 874865 | 876556 | 878241 | 879920 | 881592 | 883258 | 884917 | 46 |
| 15 | 8 873195 | 874893 | 876584 | 878269 | 879948 | 881620 | 883285 | 884945 | 45 |
| 16 | 8 873224 | 874921 | 876613 | 878297 | 879976 | 881647 | 883313 | 884972 | 44 |
| 17 | 8 873252 | 874950 | 876641 | 878325 | 880003 | 881675 | 883341 | 885000 | 43 |
| 18 | 8 873280 | 874978 | 876669 | 878353 | 880031 | 881703 | 883368 | 885027 | 42 |
| 19 | 8 873309 | 875006 | 876697 | 878381 | 880059 | 881731 | 883396 | 885055 | 41 |
| 20 | 8 873337 | 875034 | 876725 | 878409 | 880087 | 881759 | 883424 | 885083 | 40 |
| 21 | 8 873365 | 875063 | 876753 | 878437 | 880115 | 881786 | 883451 | 885110 | 39 |
| 22 | 8 873394 | 875091 | 876781 | 878465 | 880143 | 881814 | 883479 | 885138 | 38 |
| 23 | 8 873422 | 875119 | 876809 | 878493 | 880171 | 881842 | 883507 | 885165 | 37 |
| 24 | 8 873450 | 875147 | 876838 | 878521 | 880199 | 881870 | 883535 | 885193 | 36 |
| 25 | 8 873479 | 875176 | 876866 | 878549 | 880227 | 881898 | 883562 | 885220 | 35 |
| 26 | 8 873507 | 875204 | 876894 | 878577 | 880255 | 881925 | 883590 | 885248 | 34 |
| 27 | 8 873535 | 875232 | 876922 | 878605 | 880283 | 881953 | 883618 | 885276 | 33 |
| 28 | 8 873564 | 875260 | 876950 | 878633 | 880310 | 881981 | 883645 | 885303 | 32 |
| 29 | 8 873592 | 875288 | 876978 | 878661 | 880338 | 882009 | 883673 | 885331 | 31 |
| 30 | 8 873620 | 875317 | 877006 | 878689 | 880366 | 882037 | 883701 | 885358 | 30 |
| 31 | 8 873649 | 875345 | 877034 | 878717 | 880394 | 882065 | 883729 | 885386 | 29 |
| 32 | 8 873677 | 875373 | 877062 | 878745 | 880422 | 882093 | 883757 | 885414 | 28 |
| 33 | 8 873705 | 875401 | 877090 | 878773 | 880450 | 882120 | 883784 | 885441 | 27 |
| 34 | 8 873734 | 875429 | 877119 | 878801 | 880478 | 882148 | 883811 | 885469 | 26 |
| 35 | 8 873762 | 875458 | 877147 | 878829 | 880506 | 882175 | 883839 | 885496 | 25 |
| 36 | 8 873790 | 875486 | 877175 | 878857 | 880534 | 882203 | 883867 | 885524 | 24 |
| 37 | 8 873819 | 875514 | 877203 | 878885 | 880561 | 882231 | 883894 | 885551 | 23 |
| 38 | 8 873847 | 875542 | 877231 | 878913 | 880589 | 882259 | 883922 | 885579 | 22 |
| 39 | 8 873875 | 875570 | 877259 | 878941 | 880617 | 882287 | 883950 | 885607 | 21 |
| 40 | 8 873904 | 875599 | 877287 | 878969 | 880645 | 882314 | 883977 | 885634 | 20 |
| 41 | 8 873932 | 875627 | 877315 | 878997 | 880673 | 882342 | 884005 | 885662 | 19 |
| 42 | 8 873960 | 875655 | 877343 | 879025 | 880701 | 882370 | 884033 | 885689 | 18 |
| 43 | 8 873989 | 875683 | 877372 | 879053 | 880729 | 882398 | 884060 | 885717 | 17 |
| 44 | 8 874017 | 875711 | 877400 | 879081 | 880757 | 882425 | 884088 | 885744 | 16 |
| 45 | 8 874045 | 875740 | 877428 | 879109 | 880784 | 882453 | 884116 | 885772 | 15 |
| 46 | 8 874073 | 875768 | 877456 | 879137 | 880812 | 882481 | 884143 | 885799 | 14 |
| 47 | 8 874102 | 875796 | 877484 | 879165 | 880840 | 882509 | 884171 | 885827 | 13 |
| 48 | 8 874130 | 875824 | 877512 | 879193 | 880868 | 882536 | 884199 | 885855 | 12 |
| 49 | 8 874158 | 875852 | 877540 | 879221 | 880896 | 882564 | 884226 | 885882 | 11 |
| 50 | 8 874187 | 875881 | 877568 | 879249 | 880924 | 882592 | 884254 | 885910 | 10 |
| 51 | 8 874215 | 875909 | 877596 | 879277 | 880952 | 882620 | 884282 | 885937 | 9 |
| 52 | 8 874243 | 875937 | 877624 | 879305 | 880979 | 882647 | 884309 | 885965 | 8 |
| 53 | 8 874271 | 875965 | 877652 | 879333 | 881007 | 882675 | 884337 | 885992 | 7 |
| 54 | 8 874300 | 875993 | 877680 | 879361 | 881035 | 882703 | 884364 | 886020 | 6 |
| 55 | 8 874328 | 876021 | 877708 | 879389 | 881063 | 882731 | 884392 | 886047 | 5 |
| 56 | 8 874356 | 876050 | 877736 | 879417 | 881091 | 882758 | 884420 | 886075 | 4 |
| 57 | 8 874385 | 876078 | 877765 | 879445 | 881119 | 882786 | 884447 | 886102 | 3 |
| 58 | 8 874413 | 876106 | 877793 | 879473 | 881147 | 882814 | 884475 | 886130 | 2 |
| 59 | 8 874441 | 876134 | 877821 | 879501 | 881174 | 882842 | 884503 | 886157 | 1 |
| 60 | 8 874469 | 876162 | 877849 | 879529 | 881202 | 882869 | 884530 | 886185 | 0 |
| " | 43' | 42' | 41' | 40' | 39' | 38' | 37' | 36' | " |

| " | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.884903 | 886542 | 888174 | 889801 | 891421 | 893035 | 894643 | 896246 | 60 |
| 1 | 8.884930 | 886569 | 888201 | 889828 | 891448 | 893062 | 894670 | 896272 | 59 |
| 2 | 8.884958 | 886596 | 888229 | 889855 | 891475 | 893089 | 894697 | 896299 | 58 |
| 3 | 8.884985 | 886624 | 888256 | 889882 | 891502 | 893116 | 894724 | 896325 | 57 |
| 4 | 8.885013 | 886651 | 888283 | 889909 | 891529 | 893143 | 894750 | 896352 | 56 |
| 5 | 8.885040 | 886678 | 888310 | 889936 | 891556 | 893169 | 894777 | 896379 | 55 |
| 6 | 8.885067 | 886705 | 888337 | 889963 | 891583 | 893196 | 894804 | 896405 | 54 |
| 7 | 8.885095 | 886733 | 888364 | 889990 | 891610 | 893223 | 894831 | 896432 | 53 |
| 8 | 8.885122 | 886760 | 888392 | 890017 | 891636 | 893250 | 894857 | 896459 | 52 |
| 9 | 8.885149 | 886787 | 888419 | 890044 | 891663 | 893277 | 894884 | 896485 | 51 |
| 10 | 8.885177 | 886814 | 888446 | 890071 | 891690 | 893304 | 894911 | 896512 | 50 |
| 11 | 8.885204 | 886842 | 888473 | 890098 | 891717 | 893330 | 894937 | 896539 | 49 |
| 12 | 8.885231 | 886869 | 888500 | 890125 | 891744 | 893357 | 894964 | 896565 | 48 |
| 13 | 8.885259 | 886896 | 888527 | 890152 | 891771 | 893384 | 894991 | 896592 | 47 |
| 14 | 8.885286 | 886923 | 888554 | 890179 | 891798 | 893411 | 895018 | 896619 | 46 |
| 15 | 8.885313 | 886951 | 888581 | 890206 | 891825 | 893438 | 895044 | 896645 | 45 |
| 16 | 8.885341 | 886978 | 888609 | 890233 | 891852 | 893465 | 895071 | 896672 | 44 |
| 17 | 8.885368 | 887005 | 888636 | 890260 | 891879 | 893491 | 895098 | 896698 | 43 |
| 18 | 8.885395 | 887032 | 888663 | 890287 | 891906 | 893518 | 895125 | 896725 | 42 |
| 19 | 8.885423 | 887059 | 888690 | 890314 | 891933 | 893545 | 895151 | 896752 | 41 |
| 20 | 8.885450 | 887087 | 888717 | 890341 | 891960 | 893572 | 895178 | 896778 | 40 |
| 21 | 8.885477 | 887114 | 888744 | 890368 | 891987 | 893599 | 895205 | 896805 | 39 |
| 22 | 8.885505 | 887141 | 888771 | 890395 | 892013 | 893625 | 895231 | 896832 | 38 |
| 23 | 8.885532 | 887168 | 888798 | 890422 | 892040 | 893652 | 895258 | 896858 | 37 |
| 24 | 8.885559 | 887196 | 888826 | 890449 | 892067 | 893679 | 895285 | 896885 | 36 |
| 25 | 8.885587 | 887223 | 888853 | 890477 | 892094 | 893706 | 895312 | 896911 | 35 |
| 26 | 8.885614 | 887250 | 888880 | 890504 | 892121 | 893733 | 895338 | 896938 | 34 |
| 27 | 8.885641 | 887277 | 888907 | 890531 | 892148 | 893760 | 895365 | 896965 | 33 |
| 28 | 8.885669 | 887304 | 888934 | 890558 | 892175 | 893786 | 895392 | 896991 | 32 |
| 29 | 8.885696 | 887332 | 888961 | 890585 | 892202 | 893813 | 895418 | 897018 | 31 |
| 30 | 8.885723 | 887359 | 888988 | 890612 | 892229 | 893840 | 895445 | 897044 | 30 |
| 31 | 8.885751 | 887386 | 889015 | 890639 | 892256 | 893867 | 895472 | 897071 | 29 |
| 32 | 8.885778 | 887413 | 889042 | 890666 | 892283 | 893894 | 895499 | 897098 | 28 |
| 33 | 8.885805 | 887440 | 889070 | 890693 | 892309 | 893920 | 895525 | 897124 | 27 |
| 34 | 8.885832 | 887468 | 889097 | 890720 | 892336 | 893947 | 895552 | 897151 | 26 |
| 35 | 8.885860 | 887495 | 889124 | 890747 | 892363 | 893974 | 895579 | 897177 | 25 |
| 36 | 8.885887 | 887522 | 889151 | 890774 | 892390 | 894001 | 895605 | 897204 | 24 |
| 37 | 8.885914 | 887549 | 889178 | 890801 | 892417 | 894028 | 895632 | 897231 | 23 |
| 38 | 8.885942 | 887576 | 889205 | 890828 | 892444 | 894054 | 895659 | 897257 | 22 |
| 39 | 8.885969 | 887604 | 889232 | 890855 | 892471 | 894081 | 895685 | 897284 | 21 |
| 40 | 8.885996 | 887631 | 889259 | 890882 | 892498 | 894108 | 895712 | 897310 | 20 |
| 41 | 8.886024 | 887658 | 889286 | 890908 | 892525 | 894135 | 895739 | 897337 | 19 |
| 42 | 8.886051 | 887685 | 889313 | 890935 | 892551 | 894161 | 895765 | 897364 | 18 |
| 43 | 8.886078 | 887712 | 889340 | 890962 | 892578 | 894188 | 895792 | 897390 | 17 |
| 44 | 8.886105 | 887740 | 889368 | 890989 | 892605 | 894215 | 895819 | 897417 | 16 |
| 45 | 8.886133 | 887767 | 889395 | 891016 | 892632 | 894242 | 895846 | 897443 | 15 |
| 46 | 8.886160 | 887794 | 889422 | 891043 | 892659 | 894269 | 895872 | 897470 | 14 |
| 47 | 8.886187 | 887821 | 889449 | 891070 | 892686 | 894295 | 895899 | 897496 | 13 |
| 48 | 8.886215 | 887848 | 889476 | 891097 | 892713 | 894322 | 895926 | 897523 | 12 |
| 49 | 8.886242 | 887875 | 889503 | 891124 | 892740 | 894349 | 895952 | 897550 | 11 |
| 50 | 8.886269 | 887903 | 889530 | 891151 | 892767 | 894376 | 895979 | 897576 | 10 |
| 51 | 8.886296 | 887930 | 889557 | 891178 | 892793 | 894402 | 896006 | 897603 | 9 |
| 52 | 8.886324 | 887957 | 889584 | 891205 | 892820 | 894429 | 896032 | 897629 | 8 |
| 53 | 8.886351 | 887984 | 889611 | 891232 | 892847 | 894456 | 896059 | 897656 | 7 |
| 54 | 8.886378 | 888011 | 889638 | 891259 | 892874 | 894483 | 896086 | 897682 | 6 |
| 55 | 8.886405 | 888039 | 889665 | 891286 | 892901 | 894510 | 896112 | 897709 | 5 |
| 56 | 8.886433 | 888066 | 889692 | 891313 | 892928 | 894536 | 896139 | 897736 | 4 |
| 57 | 8.886460 | 888093 | 889720 | 891340 | 892955 | 894563 | 896166 | 897762 | 3 |
| 58 | 8.886487 | 888120 | 889747 | 891367 | 892981 | 894590 | 896192 | 897789 | 2 |
| 59 | 8.886515 | 888147 | 889774 | 891394 | 893008 | 894617 | 896219 | 897815 | 1 |
| 60 | 8.886542 | 888174 | 889801 | 891421 | 893035 | 894643 | 896246 | 897842 | 0 |
| " | 35' | 34' | 33' | 32' | 31' | 30' | 29' | 28' | " |

| " | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.886185 | 887833 | 889476 | 891112 | 892742 | 894366 | 895984 | 897596 | 60 |
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| 3 | 8.886268 | 887916 | 889558 | 891194 | 892823 | 894447 | 896065 | 897677 | 57 |
| 4 | 8.886295 | 887943 | 889585 | 891221 | 892850 | 894474 | 896092 | 897704 | 56 |
| 5 | 8.886323 | 887970 | 889612 | 891248 | 892878 | 894501 | 896119 | 897730 | 55 |
| 6 | 8.886350 | 887998 | 889640 | 891275 | 892905 | 894528 | 896146 | 897757 | 54 |
| 7 | 8.886378 | 888025 | 889667 | 891302 | 892932 | 894555 | 896173 | 897784 | 53 |
| 8 | 8.886405 | 888053 | 889694 | 891330 | 892959 | 894582 | 896199 | 897811 | 52 |
| 9 | 8.886433 | 888080 | 889722 | 891357 | 892986 | 894609 | 896226 | 897838 | 51 |
| 10 | 8.886460 | 888108 | 889749 | 891384 | 893013 | 894636 | 896253 | 897864 | 50 |
| 11 | 8.886488 | 888135 | 889776 | 891411 | 893040 | 894663 | 896280 | 897891 | 49 |
| 12 | 8.886515 | 888162 | 889803 | 891438 | 893067 | 894690 | 896307 | 897918 | 48 |
| 13 | 8.886543 | 888190 | 889831 | 891466 | 893094 | 894717 | 896334 | 897945 | 47 |
| 14 | 8.886570 | 888217 | 889858 | 891493 | 893121 | 894744 | 896361 | 897972 | 46 |
| 15 | 8.886598 | 888245 | 889885 | 891520 | 893149 | 894771 | 896388 | 897999 | 45 |
| 16 | 8.886625 | 888272 | 889913 | 891547 | 893176 | 894798 | 896415 | 898025 | 44 |
| 17 | 8.886653 | 888299 | 889940 | 891574 | 893203 | 894825 | 896442 | 898052 | 43 |
| 18 | 8.886680 | 888327 | 889967 | 891602 | 893230 | 894852 | 896468 | 898079 | 42 |
| 19 | 8.886708 | 888354 | 889994 | 891629 | 893257 | 894879 | 896495 | 898106 | 41 |
| 20 | 8.886735 | 888382 | 890022 | 891656 | 893284 | 894906 | 896522 | 898132 | 40 |
| 21 | 8.886763 | 888409 | 890049 | 891683 | 893311 | 894933 | 896549 | 898159 | 39 |
| 22 | 8.886790 | 888436 | 890076 | 891710 | 893338 | 894960 | 896576 | 898186 | 38 |
| 23 | 8.886818 | 888464 | 890104 | 891737 | 893365 | 894987 | 896603 | 898213 | 37 |
| 24 | 8.886845 | 888491 | 890131 | 891765 | 893392 | 895014 | 896630 | 898240 | 36 |
| 25 | 8.886873 | 888518 | 890158 | 891792 | 893419 | 895041 | 896657 | 898266 | 35 |
| 26 | 8.886900 | 888546 | 890185 | 891819 | 893446 | 895068 | 896683 | 898293 | 34 |
| 27 | 8.886928 | 888573 | 890213 | 891846 | 893474 | 895095 | 896710 | 898320 | 33 |
| 28 | 8.886955 | 888601 | 890240 | 891873 | 893501 | 895122 | 896737 | 898347 | 32 |
| 29 | 8.886982 | 888628 | 890267 | 891900 | 893528 | 895149 | 896764 | 898373 | 31 |
| 30 | 8.887010 | 888655 | 890295 | 891928 | 893555 | 895176 | 896791 | 898400 | 30 |
| 31 | 8.887037 | 888683 | 890322 | 891955 | 893582 | 895203 | 896818 | 898427 | 29 |
| 32 | 8.887065 | 888710 | 890349 | 891982 | 893609 | 895230 | 896845 | 898454 | 28 |
| 33 | 8.887092 | 888737 | 890376 | 892009 | 893636 | 895257 | 896872 | 898481 | 27 |
| 34 | 8.887120 | 888765 | 890404 | 892036 | 893663 | 895284 | 896898 | 898507 | 26 |
| 35 | 8.887147 | 888792 | 890431 | 892063 | 893690 | 895311 | 896925 | 898534 | 25 |
| 36 | 8.887175 | 888820 | 890458 | 892091 | 893717 | 895338 | 896952 | 898561 | 24 |
| 37 | 8.887202 | 888847 | 890485 | 892118 | 893744 | 895365 | 896979 | 898588 | 23 |
| 38 | 8.887230 | 888874 | 890513 | 892145 | 893771 | 895392 | 897006 | 898614 | 22 |
| 39 | 8.887257 | 888902 | 890540 | 892172 | 893798 | 895418 | 897033 | 898641 | 21 |
| 40 | 8.887285 | 888929 | 890567 | 892199 | 893825 | 895445 | 897060 | 898668 | 20 |
| 41 | 8.887312 | 888956 | 890594 | 892226 | 893852 | 895472 | 897086 | 898695 | 19 |
| 42 | 8.887340 | 888984 | 890622 | 892254 | 893879 | 895499 | 897113 | 898721 | 18 |
| 43 | 8.887367 | 889011 | 890649 | 892281 | 893906 | 895526 | 897140 | 898748 | 17 |
| 44 | 8.887394 | 889038 | 890676 | 892308 | 893934 | 895553 | 897167 | 898775 | 16 |
| 45 | 8.887422 | 889066 | 890703 | 892335 | 893961 | 895580 | 897194 | 898802 | 15 |
| 46 | 8.887449 | 889093 | 890731 | 892362 | 893988 | 895607 | 897221 | 898828 | 14 |
| 47 | 8.887477 | 889120 | 890758 | 892389 | 894015 | 895634 | 897248 | 898855 | 13 |
| 48 | 8.887504 | 889148 | 890785 | 892416 | 894042 | 895661 | 897274 | 898882 | 12 |
| 49 | 8.887532 | 889175 | 890812 | 892444 | 894069 | 895688 | 897301 | 898909 | 11 |
| 50 | 8.887559 | 889202 | 890840 | 892471 | 894096 | 895715 | 897328 | 898935 | 10 |
| 51 | 8.887587 | 889230 | 890867 | 892498 | 894123 | 895742 | 897355 | 898962 | 9 |
| 52 | 8.887614 | 889257 | 890894 | 892525 | 894150 | 895769 | 897382 | 898989 | 8 |
| 53 | 8.887641 | 889284 | 890921 | 892552 | 894177 | 895796 | 897409 | 899016 | 7 |
| 54 | 8.887669 | 889312 | 890949 | 892579 | 894204 | 895823 | 897435 | 899042 | 6 |
| 55 | 8.887696 | 889339 | 890976 | 892606 | 894231 | 895850 | 897462 | 899069 | 5 |
| 56 | 8.887724 | 889366 | 891003 | 892633 | 894258 | 895876 | 897489 | 899096 | 4 |
| 57 | 8.887751 | 889394 | 891030 | 892661 | 894285 | 895903 | 897516 | 899122 | 3 |
| 58 | 8.887779 | 889421 | 891057 | 892688 | 894312 | 895930 | 897543 | 899149 | 2 |
| 59 | 8.887806 | 889448 | 891085 | 892715 | 894339 | 895957 | 897570 | 899176 | 1 |
| 60 | 8.887833 | 889476 | 891112 | 892742 | 894366 | 895984 | 897596 | 899203 | 0 |
| " | 35' | 34' | 33' | 32' | 31' | 30' | 29' | 28' | " |

| " | 32' | 33' | 34' | 35' | 36' | 37' | 38' | 39' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.897842 | 899432 | 901017 | 902596 | 904169 | 905736 | 907297 | 908853 | 60 |
| 1 | 8.897868 | 899459 | 901043 | 902622 | 904195 | 905762 | 907323 | 908879 | 59 |
| 2 | 8.897895 | 899485 | 901069 | 902648 | 904221 | 905788 | 907349 | 908905 | 58 |
| 3 | 8.897921 | 899512 | 901096 | 902674 | 904247 | 905814 | 907375 | 908931 | 57 |
| 4 | 8.897948 | 899538 | 901122 | 902701 | 904273 | 905840 | 907401 | 908957 | 56 |
| 5 | 8.897975 | 899564 | 901149 | 902727 | 904299 | 905866 | 907427 | 908983 | 55 |
| 6 | 8.898001 | 899591 | 901175 | 902753 | 904326 | 905892 | 907453 | 909009 | 54 |
| 7 | 8.898028 | 899617 | 901201 | 902779 | 904352 | 905918 | 907479 | 909035 | 53 |
| 8 | 8.898054 | 899644 | 901228 | 902806 | 904378 | 905944 | 907505 | 909061 | 52 |
| 9 | 8.898081 | 899670 | 901254 | 902832 | 904404 | 905970 | 907531 | 909086 | 51 |
| 10 | 8.898107 | 899697 | 901280 | 902858 | 904430 | 905997 | 907557 | 909112 | 50 |
| 11 | 8.898134 | 899723 | 901307 | 902884 | 904456 | 906023 | 907583 | 909138 | 49 |
| 12 | 8.898160 | 899750 | 901333 | 902911 | 904482 | 906049 | 907609 | 909164 | 48 |
| 13 | 8.898187 | 899776 | 901359 | 902937 | 904509 | 906075 | 907635 | 909190 | 47 |
| 14 | 8.898213 | 899802 | 901386 | 902963 | 904535 | 906101 | 907661 | 909216 | 46 |
| 15 | 8.898240 | 899829 | 901412 | 902989 | 904561 | 906127 | 907687 | 909242 | 45 |
| 16 | 8.898266 | 899855 | 901438 | 903016 | 904587 | 906153 | 907713 | 909267 | 44 |
| 17 | 8.898293 | 899882 | 901465 | 903042 | 904613 | 906179 | 907739 | 909293 | 43 |
| 18 | 8.898320 | 899908 | 901491 | 903068 | 904639 | 906205 | 907765 | 909319 | 42 |
| 19 | 8.898346 | 899935 | 901517 | 903094 | 904665 | 906231 | 907791 | 909345 | 41 |
| 20 | 8.898373 | 899961 | 901544 | 903121 | 904692 | 906257 | 907817 | 909371 | 40 |
| 21 | 8.898399 | 899987 | 901570 | 903147 | 904718 | 906283 | 907843 | 909397 | 39 |
| 22 | 8.898426 | 900014 | 901596 | 903173 | 904744 | 906309 | 907869 | 909423 | 38 |
| 23 | 8.898452 | 900040 | 901623 | 903199 | 904770 | 906335 | 907895 | 909448 | 37 |
| 24 | 8.898479 | 900067 | 901649 | 903225 | 904796 | 906361 | 907921 | 909474 | 36 |
| 25 | 8.898505 | 900093 | 901675 | 903252 | 904822 | 906387 | 907946 | 909500 | 35 |
| 26 | 8.898532 | 900120 | 901702 | 903278 | 904848 | 906413 | 907972 | 909526 | 34 |
| 27 | 8.898558 | 900146 | 901728 | 903304 | 904875 | 906439 | 907998 | 909552 | 33 |
| 28 | 8.898585 | 900172 | 901754 | 903330 | 904901 | 906465 | 908024 | 909578 | 32 |
| 29 | 8.898611 | 900199 | 901781 | 903357 | 904927 | 906491 | 908050 | 909604 | 31 |
| 30 | 8.898638 | 900225 | 901807 | 903383 | 904953 | 906517 | 908076 | 909629 | 30 |
| 31 | 8.898664 | 900252 | 901833 | 903409 | 904979 | 906543 | 908102 | 909655 | 29 |
| 32 | 8.898691 | 900278 | 901859 | 903435 | 905005 | 906569 | 908128 | 909681 | 28 |
| 33 | 8.898717 | 900304 | 901886 | 903461 | 905031 | 906595 | 908154 | 909707 | 27 |
| 34 | 8.898744 | 900331 | 901912 | 903488 | 905057 | 906621 | 908180 | 909733 | 26 |
| 35 | 8.898770 | 900357 | 901938 | 903514 | 905083 | 906647 | 908206 | 909759 | 25 |
| 36 | 8.898797 | 900384 | 901965 | 903540 | 905110 | 906673 | 908232 | 909784 | 24 |
| 37 | 8.898823 | 900410 | 901991 | 903566 | 905136 | 906700 | 908258 | 909810 | 23 |
| 38 | 8.898850 | 900436 | 902017 | 903592 | 905162 | 906726 | 908284 | 909836 | 22 |
| 39 | 8.898876 | 900463 | 902044 | 903619 | 905188 | 906752 | 908310 | 909862 | 21 |
| 40 | 8.898903 | 900489 | 902070 | 903645 | 905214 | 906778 | 908335 | 909888 | 20 |
| 41 | 8.898929 | 900516 | 902096 | 903671 | 905240 | 906804 | 908361 | 909914 | 19 |
| 42 | 8.898956 | 900542 | 902123 | 903697 | 905266 | 906830 | 908387 | 909939 | 18 |
| 43 | 8.898982 | 900568 | 902149 | 903723 | 905292 | 906856 | 908413 | 909965 | 17 |
| 44 | 8.899009 | 900595 | 902175 | 903750 | 905318 | 906882 | 908439 | 909991 | 16 |
| 45 | 8.899035 | 900621 | 902201 | 903776 | 905345 | 906908 | 908465 | 910017 | 15 |
| 46 | 8.899062 | 900648 | 902228 | 903802 | 905371 | 906934 | 908491 | 910043 | 14 |
| 47 | 8.899088 | 900674 | 902254 | 903828 | 905397 | 906960 | 908517 | 910068 | 13 |
| 48 | 8.899115 | 900700 | 902280 | 903854 | 905423 | 906986 | 908543 | 910094 | 12 |
| 49 | 8.899141 | 900727 | 902307 | 903881 | 905449 | 907012 | 908569 | 910120 | 11 |
| 50 | 8.899168 | 900753 | 902333 | 903907 | 905475 | 907038 | 908595 | 910146 | 10 |
| 51 | 8.899194 | 900779 | 902359 | 903933 | 905501 | 907064 | 908620 | 910172 | 9 |
| 52 | 8.899220 | 900806 | 902385 | 903959 | 905527 | 907090 | 908646 | 910197 | 8 |
| 53 | 8.899247 | 900832 | 902412 | 903985 | 905553 | 907116 | 908672 | 910223 | 7 |
| 54 | 8.899273 | 900859 | 902438 | 904011 | 905579 | 907142 | 908698 | 910249 | 6 |
| 55 | 8.899300 | 900885 | 902464 | 904038 | 905605 | 907168 | 908724 | 910275 | 5 |
| 56 | 8.899326 | 900911 | 902490 | 904064 | 905632 | 907194 | 908750 | 910301 | 4 |
| 57 | 8.899353 | 900938 | 902517 | 904090 | 905658 | 907220 | 908776 | 910326 | 3 |
| 58 | 8.899379 | 900964 | 902543 | 904116 | 905684 | 907246 | 908802 | 910352 | 2 |
| 59 | 8.899406 | 900990 | 902569 | 904142 | 905710 | 907271 | 908828 | 910378 | 1 |
| 60 | 8.899432 | 901017 | 902596 | 904169 | 905736 | 907297 | 908853 | 910404 | 0 |
| " | 27' | 26' | 25' | 24' | 23' | 22' | 21' | 20' | " |

| " | 32' | 33' | 34' | 35' | 36' | 37' | 38' | 39' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 899203 | 900803 | 902398 | 903987 | 905570 | 907147 | 908719 | 910285 | 60 |
| 1 | 8.899229 | 900840 | 902424 | 904013 | 905596 | 907173 | 908745 | 910311 | 59 |
| 2 | 8.899256 | 900856 | 902451 | 904039 | 905622 | 907200 | 908771 | 910337 | 58 |
| 3 | 8.899283 | 900883 | 902477 | 904066 | 905649 | 907226 | 908797 | 910363 | 57 |
| 4 | 8.899309 | 900910 | 902504 | 904092 | 905675 | 907252 | 908824 | 910390 | 56 |
| 5 | 8.899336 | 900936 | 902530 | 904119 | 905701 | 907278 | 908850 | 910416 | 55 |
| 6 | 8.899363 | 900963 | 902557 | 904145 | 905728 | 907305 | 908876 | 910442 | 54 |
| 7 | 8.899390 | 900989 | 902583 | 904172 | 905754 | 907331 | 908902 | 910468 | 53 |
| 8 | 8.899416 | 901016 | 902610 | 904198 | 905780 | 907357 | 908928 | 910494 | 52 |
| 9 | 8.899443 | 901043 | 902636 | 904224 | 905807 | 907383 | 908954 | 910520 | 51 |
| 10 | 8.899470 | 901069 | 902663 | 904251 | 905833 | 907410 | 908980 | 910546 | 50 |
| 11 | 8.899496 | 901096 | 902689 | 904277 | 905859 | 907436 | 909007 | 910572 | 49 |
| 12 | 8.899523 | 901122 | 902716 | 904304 | 905886 | 907462 | 909033 | 910598 | 48 |
| 13 | 8.899550 | 901149 | 902742 | 904330 | 905912 | 907488 | 909059 | 910624 | 47 |
| 14 | 8.899577 | 901176 | 902769 | 904356 | 905938 | 907514 | 909085 | 910650 | 46 |
| 15 | 8.899603 | 901202 | 902795 | 904383 | 905965 | 907541 | 909111 | 910676 | 45 |
| 16 | 8.899630 | 901229 | 902822 | 904409 | 905991 | 907567 | 909137 | 910702 | 44 |
| 17 | 8.899657 | 901255 | 902848 | 904436 | 906017 | 907593 | 909163 | 910728 | 43 |
| 18 | 8.899683 | 901282 | 902875 | 904462 | 906044 | 907619 | 909190 | 910754 | 42 |
| 19 | 8.899710 | 901309 | 902901 | 904489 | 906070 | 907646 | 909216 | 910780 | 41 |
| 20 | 8.899737 | 901335 | 902928 | 904515 | 906096 | 907672 | 909242 | 910806 | 40 |
| 21 | 8.899763 | 901362 | 902954 | 904541 | 906122 | 907698 | 909268 | 910832 | 39 |
| 22 | 8.899790 | 901388 | 902981 | 904568 | 906149 | 907724 | 909294 | 910858 | 38 |
| 23 | 8.899817 | 901415 | 903007 | 904594 | 906175 | 907750 | 909320 | 910884 | 37 |
| 24 | 8.899843 | 901442 | 903034 | 904621 | 906201 | 907777 | 909346 | 910910 | 36 |
| 25 | 8.899870 | 901468 | 903060 | 904647 | 906228 | 907803 | 909372 | 910936 | 35 |
| 26 | 8.899897 | 901495 | 903087 | 904673 | 906254 | 907829 | 909398 | 910962 | 34 |
| 27 | 8.899924 | 901521 | 903113 | 904700 | 906280 | 907855 | 909425 | 910988 | 33 |
| 28 | 8.899950 | 901548 | 903140 | 904726 | 906307 | 907881 | 909451 | 911014 | 32 |
| 29 | 8.899977 | 901575 | 903166 | 904752 | 906333 | 907908 | 909477 | 911040 | 31 |
| 30 | 8.900004 | 901601 | 903193 | 904779 | 906359 | 907934 | 909503 | 911066 | 30 |
| 31 | 8.900030 | 901628 | 903219 | 904805 | 906385 | 907960 | 909529 | 911092 | 29 |
| 32 | 8.900057 | 901654 | 903246 | 904832 | 906412 | 907986 | 909555 | 911118 | 28 |
| 33 | 8.900084 | 901681 | 903272 | 904858 | 906438 | 908012 | 909581 | 911144 | 27 |
| 34 | 8.900110 | 901707 | 903299 | 904884 | 906464 | 908039 | 909607 | 911170 | 26 |
| 35 | 8.900137 | 901734 | 903325 | 904911 | 906491 | 908065 | 909633 | 911196 | 25 |
| 36 | 8.900164 | 901761 | 903352 | 904937 | 906517 | 908091 | 909659 | 911222 | 24 |
| 37 | 8.900190 | 901787 | 903378 | 904964 | 906543 | 908117 | 909686 | 911248 | 23 |
| 38 | 8.900217 | 901814 | 903405 | 904990 | 906569 | 908143 | 909712 | 911274 | 22 |
| 39 | 8.900244 | 901840 | 903431 | 905016 | 906596 | 908170 | 909738 | 911300 | 21 |
| 40 | 8.900270 | 901867 | 903458 | 905043 | 906622 | 908196 | 909764 | 911326 | 20 |
| 41 | 8.900297 | 901893 | 903484 | 905069 | 906648 | 908222 | 909790 | 911352 | 19 |
| 42 | 8.900324 | 901920 | 903511 | 905095 | 906675 | 908248 | 909816 | 911378 | 18 |
| 43 | 8.900350 | 901946 | 903537 | 905122 | 906701 | 908274 | 909842 | 911404 | 17 |
| 44 | 8.900377 | 901973 | 903563 | 905148 | 906727 | 908300 | 909868 | 911430 | 16 |
| 45 | 8.900403 | 902000 | 903590 | 905174 | 906753 | 908327 | 909894 | 911456 | 15 |
| 46 | 8.900430 | 902026 | 903616 | 905201 | 906780 | 908353 | 909920 | 911482 | 14 |
| 47 | 8.900457 | 902053 | 903643 | 905227 | 906806 | 908379 | 909946 | 911508 | 13 |
| 48 | 8.900483 | 902079 | 903669 | 905254 | 906832 | 908405 | 909972 | 911534 | 12 |
| 49 | 8.900510 | 902106 | 903695 | 905280 | 906858 | 908431 | 909998 | 911560 | 11 |
| 50 | 8.900537 | 902132 | 903722 | 905307 | 906885 | 908457 | 910025 | 911586 | 10 |
| 51 | 8.900563 | 902159 | 903749 | 905333 | 906911 | 908484 | 910051 | 911612 | 9 |
| 52 | 8.900590 | 902185 | 903775 | 905359 | 906937 | 908510 | 910077 | 911638 | 8 |
| 53 | 8.900617 | 902212 | 903801 | 905385 | 906963 | 908536 | 910103 | 911664 | 7 |
| 54 | 8.900643 | 902238 | 903828 | 905412 | 906990 | 908562 | 910129 | 911690 | 6 |
| 55 | 8.900670 | 902265 | 903854 | 905438 | 907016 | 908588 | 910155 | 911716 | 5 |
| 56 | 8.900697 | 902292 | 903881 | 905464 | 907042 | 908614 | 910181 | 911742 | 4 |
| 57 | 8.900723 | 902318 | 903907 | 905491 | 907068 | 908641 | 910207 | 911768 | 3 |
| 58 | 8.900750 | 902345 | 903934 | 905517 | 907095 | 908667 | 910233 | 911794 | 2 |
| 59 | 8.900776 | 902371 | 903960 | 905543 | 907121 | 908693 | 910259 | 911820 | 1 |
| 60 | 8.900803 | 902398 | 903987 | 905570 | 907147 | 908719 | 910285 | 911846 | 0 |
| " | 27' | 26' | 25' | 24' | 23' | 22' | 21' | 20' | " |

| " | 40' | 41' | 42' | 43' | 44' | 45' | 46' | 47' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.910404 | 911949 | 913488 | 915022 | 916550 | 918073 | 919591 | 921103 | 60 |
| 1 | 8.910435 | 911974 | 913514 | 915047 | 916576 | 918099 | 919616 | 921129 | 59 |
| 2 | 8.910450 | 912000 | 913539 | 915073 | 916601 | 918124 | 919642 | 921154 | 58 |
| 3 | 8.910481 | 912026 | 913565 | 915098 | 916627 | 918149 | 919667 | 921179 | 57 |
| 4 | 8.910507 | 912052 | 913590 | 915124 | 916652 | 918175 | 919692 | 921204 | 56 |
| 5 | 8.910533 | 912077 | 913616 | 915149 | 916677 | 918200 | 919717 | 921229 | 55 |
| 6 | 8.910559 | 912103 | 913642 | 915175 | 916703 | 918225 | 919743 | 921254 | 54 |
| 7 | 8.910584 | 912129 | 913667 | 915201 | 916728 | 918251 | 919768 | 921280 | 53 |
| 8 | 8.910610 | 912154 | 913693 | 915226 | 916754 | 918276 | 919793 | 921305 | 52 |
| 9 | 8.910636 | 912180 | 913718 | 915252 | 916779 | 918301 | 919818 | 921330 | 51 |
| 10 | 8.910662 | 912206 | 913744 | 915277 | 916805 | 918327 | 919843 | 921355 | 50 |
| 11 | 8.910688 | 912231 | 913770 | 915303 | 916830 | 918352 | 919869 | 921380 | 49 |
| 12 | 8.910713 | 912257 | 913795 | 915328 | 916855 | 918377 | 919894 | 921405 | 48 |
| 13 | 8.910739 | 912283 | 913821 | 915354 | 916881 | 918403 | 919919 | 921430 | 47 |
| 14 | 8.910765 | 912308 | 913846 | 915379 | 916906 | 918428 | 919944 | 921456 | 46 |
| 15 | 8.910791 | 912334 | 913872 | 915405 | 916932 | 918453 | 919970 | 921481 | 45 |
| 16 | 8.910816 | 912360 | 913898 | 915430 | 916957 | 918479 | 919995 | 921506 | 44 |
| 17 | 8.910842 | 912385 | 913923 | 915456 | 916982 | 918504 | 920020 | 921531 | 43 |
| 18 | 8.910868 | 912411 | 913949 | 915481 | 917008 | 918529 | 920045 | 921556 | 42 |
| 19 | 8.910894 | 912437 | 913974 | 915507 | 917033 | 918555 | 920071 | 921581 | 41 |
| 20 | 8.910919 | 912462 | 914000 | 915532 | 917059 | 918580 | 920096 | 921606 | 40 |
| 21 | 8.910945 | 912488 | 914026 | 915557 | 917084 | 918605 | 920121 | 921631 | 39 |
| 22 | 8.910971 | 912514 | 914051 | 915583 | 917109 | 918630 | 920146 | 921657 | 38 |
| 23 | 8.910997 | 912539 | 914077 | 915608 | 917135 | 918656 | 920171 | 921682 | 37 |
| 24 | 8.911022 | 912565 | 914102 | 915634 | 917160 | 918681 | 920197 | 921707 | 36 |
| 25 | 8.911048 | 912591 | 914128 | 915659 | 917186 | 918706 | 920222 | 921732 | 35 |
| 26 | 8.911074 | 912616 | 914153 | 915685 | 917211 | 918732 | 920247 | 921757 | 34 |
| 27 | 8.911100 | 912642 | 914179 | 915710 | 917236 | 918757 | 920272 | 921782 | 33 |
| 28 | 8.911125 | 912668 | 914205 | 915736 | 917262 | 918782 | 920297 | 921807 | 32 |
| 29 | 8.911151 | 912693 | 914230 | 915761 | 917287 | 918808 | 920323 | 921832 | 31 |
| 30 | 8.911177 | 912719 | 914256 | 915787 | 917313 | 918833 | 920348 | 921858 | 30 |
| 31 | 8.911203 | 912745 | 914281 | 915812 | 917338 | 918858 | 920373 | 921883 | 29 |
| 32 | 8.911228 | 912770 | 914307 | 915838 | 917363 | 918883 | 920398 | 921908 | 28 |
| 33 | 8.911254 | 912796 | 914332 | 915863 | 917389 | 918909 | 920424 | 921933 | 27 |
| 34 | 8.911280 | 912822 | 914358 | 915889 | 917414 | 918934 | 920449 | 921958 | 26 |
| 35 | 8.911306 | 912847 | 914383 | 915914 | 917439 | 918959 | 920474 | 921983 | 25 |
| 36 | 8.911331 | 912873 | 914409 | 915940 | 917465 | 918985 | 920499 | 922008 | 24 |
| 37 | 8.911357 | 912899 | 914435 | 915965 | 917490 | 919010 | 920524 | 922033 | 23 |
| 38 | 8.911383 | 912924 | 914460 | 915991 | 917516 | 919035 | 920549 | 922058 | 22 |
| 39 | 8.911409 | 912950 | 914486 | 916016 | 917541 | 919060 | 920575 | 922084 | 21 |
| 40 | 8.911434 | 912976 | 914511 | 916041 | 917566 | 919086 | 920600 | 922109 | 20 |
| 41 | 8.911460 | 913001 | 914537 | 916067 | 917592 | 919111 | 920625 | 922134 | 19 |
| 42 | 8.911486 | 913027 | 914562 | 916092 | 917617 | 919136 | 920650 | 922159 | 18 |
| 43 | 8.911512 | 913052 | 914588 | 916118 | 917642 | 919162 | 920675 | 922184 | 17 |
| 44 | 8.911537 | 913078 | 914613 | 916143 | 917668 | 919187 | 920701 | 922209 | 16 |
| 45 | 8.911563 | 913104 | 914639 | 916169 | 917693 | 919212 | 920726 | 922234 | 15 |
| 46 | 8.911589 | 913129 | 914665 | 916194 | 917718 | 919237 | 920751 | 922259 | 14 |
| 47 | 8.911614 | 913155 | 914690 | 916220 | 917744 | 919263 | 920776 | 922284 | 13 |
| 48 | 8.911640 | 913181 | 914716 | 916245 | 917769 | 919288 | 920801 | 922309 | 12 |
| 49 | 8.911666 | 913206 | 914741 | 916271 | 917795 | 919313 | 920827 | 922335 | 11 |
| 50 | 8.911692 | 913232 | 914767 | 916296 | 917820 | 919338 | 920852 | 922360 | 10 |
| 51 | 8.911717 | 913258 | 914792 | 916321 | 917845 | 919364 | 920877 | 922385 | 9 |
| 52 | 8.911743 | 913283 | 914818 | 916347 | 917871 | 919389 | 920902 | 922410 | 8 |
| 53 | 8.911769 | 913309 | 914843 | 916372 | 917896 | 919414 | 920927 | 922435 | 7 |
| 54 | 8.911794 | 913334 | 914869 | 916398 | 917921 | 919440 | 920952 | 922460 | 6 |
| 55 | 8.911820 | 913360 | 914894 | 916423 | 917947 | 919465 | 920978 | 922485 | 5 |
| 56 | 8.911846 | 913386 | 914920 | 916449 | 917972 | 919490 | 921003 | 922510 | 4 |
| 57 | 8.911872 | 913411 | 914945 | 916474 | 917997 | 919515 | 921028 | 922535 | 3 |
| 58 | 8.911897 | 913437 | 914971 | 916499 | 918023 | 919541 | 921053 | 922560 | 2 |
| 59 | 8.911923 | 913462 | 914996 | 916525 | 918048 | 919566 | 921078 | 922585 | 1 |
| 60 | 8.911949 | 913488 | 915022 | 916550 | 918073 | 919591 | 921103 | 922610 | 0 |
| " | 19' | 18' | 17' | 16' | 15' | 14' | 13' | 12' | " |

| " | 40' | 41' | 42' | 43' | 44' | 45' | 46' | 47' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.91846 | 913401 | 914951 | 916495 | 918034 | 919568 | 921096 | 922619 | 60 |
| 1 | 8.91872 | 913427 | 914977 | 916521 | 918060 | 919593 | 921121 | 922644 | 59 |
| 2 | 8.91898 | 913453 | 915002 | 916547 | 918085 | 919619 | 921147 | 922669 | 58 |
| 3 | 8.91924 | 913479 | 915028 | 916572 | 918111 | 919644 | 921172 | 922695 | 57 |
| 4 | 8.91950 | 913505 | 915054 | 916598 | 918136 | 919670 | 921197 | 922720 | 56 |
| 5 | 8.91976 | 913531 | 915080 | 916624 | 918162 | 919695 | 921223 | 922745 | 55 |
| 6 | 8.912002 | 913556 | 915106 | 916649 | 918188 | 919721 | 921248 | 922771 | 54 |
| 7 | 8.912028 | 913582 | 915131 | 916675 | 918213 | 919746 | 921274 | 922796 | 53 |
| 8 | 8.912054 | 913608 | 915157 | 916701 | 918239 | 919772 | 921299 | 922821 | 52 |
| 9 | 8.912080 | 913634 | 915183 | 916726 | 918264 | 919797 | 921324 | 922847 | 51 |
| 10 | 8.912106 | 913660 | 915209 | 916752 | 918290 | 919823 | 921350 | 922872 | 50 |
| 11 | 8.912132 | 913686 | 915234 | 916778 | 918316 | 919848 | 921375 | 922897 | 49 |
| 12 | 8.912157 | 913712 | 915260 | 916803 | 918341 | 919874 | 921401 | 922923 | 48 |
| 13 | 8.912183 | 913737 | 915286 | 916829 | 918367 | 919899 | 921426 | 922948 | 47 |
| 14 | 8.912209 | 913763 | 915312 | 916855 | 918392 | 919925 | 921452 | 922973 | 46 |
| 15 | 8.912235 | 913789 | 915337 | 916880 | 918418 | 919950 | 921477 | 922999 | 45 |
| 16 | 8.912261 | 913815 | 915363 | 916906 | 918443 | 919976 | 921502 | 923024 | 44 |
| 17 | 8.912287 | 913841 | 915389 | 916932 | 918469 | 920001 | 921528 | 923049 | 43 |
| 18 | 8.912313 | 913867 | 915415 | 916957 | 918495 | 920027 | 921553 | 923074 | 42 |
| 19 | 8.912339 | 913893 | 915440 | 916983 | 918520 | 920052 | 921579 | 923100 | 41 |
| 20 | 8.912365 | 913918 | 915466 | 917009 | 918546 | 920078 | 921604 | 923125 | 40 |
| 21 | 8.912391 | 913944 | 915492 | 917034 | 918571 | 920103 | 921629 | 923150 | 39 |
| 22 | 8.912417 | 913970 | 915518 | 917060 | 918597 | 920128 | 921655 | 923176 | 38 |
| 23 | 8.912443 | 913996 | 915543 | 917086 | 918622 | 920154 | 921680 | 923201 | 37 |
| 24 | 8.912469 | 914022 | 915569 | 917111 | 918648 | 920179 | 921706 | 923226 | 36 |
| 25 | 8.912495 | 914048 | 915595 | 917137 | 918674 | 920205 | 921731 | 923252 | 35 |
| 26 | 8.912521 | 914073 | 915621 | 917163 | 918699 | 920230 | 921756 | 923277 | 34 |
| 27 | 8.912547 | 914099 | 915646 | 917188 | 918725 | 920256 | 921782 | 923302 | 33 |
| 28 | 8.912572 | 914125 | 915672 | 917214 | 918750 | 920281 | 921807 | 923328 | 32 |
| 29 | 8.912598 | 914151 | 915698 | 917240 | 918776 | 920307 | 921832 | 923353 | 31 |
| 30 | 8.912624 | 914177 | 915724 | 917265 | 918801 | 920332 | 921858 | 923378 | 30 |
| 31 | 8.912650 | 914203 | 915749 | 917291 | 918827 | 920358 | 921883 | 923403 | 29 |
| 32 | 8.912676 | 914228 | 915775 | 917317 | 918853 | 920383 | 921909 | 923429 | 28 |
| 33 | 8.912702 | 914254 | 915801 | 917342 | 918878 | 920409 | 921934 | 923454 | 27 |
| 34 | 8.912728 | 914280 | 915827 | 917368 | 918904 | 920434 | 921959 | 923479 | 26 |
| 35 | 8.912754 | 914306 | 915852 | 917393 | 918929 | 920460 | 921985 | 923505 | 25 |
| 36 | 8.912780 | 914332 | 915878 | 917419 | 918955 | 920485 | 922010 | 923530 | 24 |
| 37 | 8.912806 | 914357 | 915904 | 917445 | 918980 | 920511 | 922035 | 923555 | 23 |
| 38 | 8.912832 | 914383 | 915930 | 917470 | 919006 | 920536 | 922061 | 923580 | 22 |
| 39 | 8.912857 | 914409 | 915955 | 917496 | 919031 | 920561 | 922086 | 923606 | 21 |
| 40 | 8.912883 | 914435 | 915981 | 917522 | 919057 | 920587 | 922112 | 923631 | 20 |
| 41 | 8.912909 | 914461 | 916007 | 917547 | 919082 | 920612 | 922137 | 923656 | 19 |
| 42 | 8.912935 | 914487 | 916032 | 917573 | 919108 | 920638 | 922162 | 923682 | 18 |
| 43 | 8.912961 | 914512 | 916058 | 917599 | 919134 | 920663 | 922188 | 923707 | 17 |
| 44 | 8.912987 | 914538 | 916084 | 917624 | 919159 | 920689 | 922213 | 923732 | 16 |
| 45 | 8.913013 | 914564 | 916110 | 917650 | 919185 | 920714 | 922238 | 923757 | 15 |
| 46 | 8.913039 | 914590 | 916135 | 917675 | 919210 | 920740 | 922264 | 923783 | 14 |
| 47 | 8.913065 | 914616 | 916161 | 917701 | 919236 | 920765 | 922289 | 923808 | 13 |
| 48 | 8.913091 | 914641 | 916187 | 917727 | 919261 | 920791 | 922314 | 923833 | 12 |
| 49 | 8.913116 | 914667 | 916212 | 917752 | 919287 | 920816 | 922340 | 923858 | 11 |
| 50 | 8.913142 | 914693 | 916238 | 917778 | 919312 | 920841 | 922365 | 923884 | 10 |
| 51 | 8.913168 | 914719 | 916264 | 917804 | 919338 | 920867 | 922391 | 923909 | 9 |
| 52 | 8.913194 | 914745 | 916290 | 917829 | 919363 | 920892 | 922416 | 923934 | 8 |
| 53 | 8.913220 | 914770 | 916315 | 917855 | 919389 | 920918 | 922441 | 923959 | 7 |
| 54 | 8.913246 | 914796 | 916341 | 917880 | 919414 | 920943 | 922467 | 923985 | 6 |
| 55 | 8.913272 | 914822 | 916367 | 917906 | 919440 | 920969 | 922492 | 924010 | 5 |
| 56 | 8.913298 | 914848 | 916392 | 917932 | 919465 | 920994 | 922517 | 924035 | 4 |
| 57 | 8.913324 | 914874 | 916418 | 917957 | 919491 | 921019 | 922543 | 924061 | 3 |
| 58 | 8.913349 | 914899 | 916444 | 917983 | 919517 | 921045 | 922568 | 924086 | 2 |
| 59 | 8.913375 | 914925 | 916469 | 918008 | 919542 | 921070 | 922593 | 924111 | 1 |
| 60 | 8.913401 | 914951 | 916495 | 918034 | 919568 | 921096 | 922619 | 924136 | 0 |
| " | 19' | 18' | 17' | 16' | 15' | 14' | 13' | 12' | " |

| " | 48' | 49' | 50' | 51' | 52' | 53' | 54' | 55' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.922610 | 924112 | 925609 | 927100 | 928587 | 930068 | 931544 | 933015 | 60 |
| 1 | 8.922636 | 924137 | 925634 | 927125 | 928611 | 930092 | 931568 | 933039 | 59 |
| 2 | 8.922661 | 924162 | 925659 | 927150 | 928636 | 930117 | 931593 | 933064 | 58 |
| 3 | 8.922686 | 924187 | 925684 | 927175 | 928661 | 930142 | 931618 | 933088 | 57 |
| 4 | 8.922711 | 924212 | 925708 | 927200 | 928686 | 930166 | 931642 | 933113 | 56 |
| 5 | 8.922736 | 924237 | 925733 | 927224 | 928710 | 930191 | 931667 | 933137 | 55 |
| 6 | 8.922761 | 924262 | 925758 | 927249 | 928735 | 930216 | 931691 | 933162 | 54 |
| 7 | 8.922786 | 924287 | 925783 | 927274 | 928760 | 930240 | 931716 | 933186 | 53 |
| 8 | 8.922811 | 924312 | 925808 | 927299 | 928784 | 930265 | 931740 | 933211 | 52 |
| 9 | 8.922836 | 924337 | 925833 | 927324 | 928809 | 930290 | 931765 | 933235 | 51 |
| 10 | 8.922861 | 924362 | 925858 | 927348 | 928834 | 930314 | 931789 | 933260 | 50 |
| 11 | 8.922886 | 924387 | 925883 | 927373 | 928859 | 930339 | 931814 | 933284 | 49 |
| 12 | 8.922911 | 924412 | 925908 | 927398 | 928883 | 930363 | 931839 | 933309 | 48 |
| 13 | 8.922936 | 924437 | 925932 | 927423 | 928908 | 930388 | 931863 | 933333 | 47 |
| 14 | 8.922961 | 924462 | 925957 | 927448 | 928933 | 930413 | 931888 | 933358 | 46 |
| 15 | 8.922986 | 924487 | 925982 | 927472 | 928957 | 930437 | 931912 | 933382 | 45 |
| 16 | 8.923011 | 924512 | 926007 | 927497 | 928982 | 930462 | 931937 | 933406 | 44 |
| 17 | 8.923037 | 924537 | 926032 | 927522 | 929007 | 930487 | 931961 | 933431 | 43 |
| 18 | 8.923062 | 924562 | 926057 | 927547 | 929032 | 930511 | 931986 | 933455 | 42 |
| 19 | 8.923087 | 924587 | 926082 | 927572 | 929056 | 930536 | 932010 | 933480 | 41 |
| 20 | 8.923112 | 924612 | 926107 | 927596 | 929081 | 930560 | 932035 | 933504 | 40 |
| 21 | 8.923137 | 924637 | 926131 | 927621 | 929106 | 930585 | 932059 | 933529 | 39 |
| 22 | 8.923162 | 924662 | 926156 | 927646 | 929130 | 930610 | 932084 | 933553 | 38 |
| 23 | 8.923187 | 924687 | 926181 | 927671 | 929155 | 930634 | 932108 | 933578 | 37 |
| 24 | 8.923212 | 924712 | 926206 | 927695 | 929180 | 930659 | 932133 | 933602 | 36 |
| 25 | 8.923237 | 924737 | 926231 | 927720 | 929204 | 930683 | 932157 | 933626 | 35 |
| 26 | 8.923262 | 924761 | 926256 | 927745 | 929229 | 930708 | 932182 | 933651 | 34 |
| 27 | 8.923287 | 924786 | 926281 | 927770 | 929254 | 930733 | 932207 | 933675 | 33 |
| 28 | 8.923312 | 924811 | 926306 | 927795 | 929278 | 930757 | 932231 | 933700 | 32 |
| 29 | 8.923337 | 924836 | 926330 | 927819 | 929303 | 930782 | 932256 | 933724 | 31 |
| 30 | 8.923362 | 924861 | 926355 | 927844 | 929328 | 930806 | 932280 | 933749 | 30 |
| 31 | 8.923387 | 924886 | 926380 | 927869 | 929353 | 930831 | 932305 | 933773 | 29 |
| 32 | 8.923412 | 924911 | 926405 | 927894 | 929377 | 930856 | 932329 | 933798 | 28 |
| 33 | 8.923437 | 924936 | 926430 | 927918 | 929402 | 930880 | 932354 | 933822 | 27 |
| 34 | 8.923462 | 924961 | 926455 | 927943 | 929427 | 930905 | 932378 | 933846 | 26 |
| 35 | 8.923487 | 924986 | 926480 | 927968 | 929451 | 930929 | 932403 | 933871 | 25 |
| 36 | 8.923512 | 925011 | 926504 | 927993 | 929476 | 930954 | 932427 | 933895 | 24 |
| 37 | 8.923537 | 925036 | 926529 | 928017 | 929501 | 930979 | 932452 | 933920 | 23 |
| 38 | 8.923562 | 925061 | 926554 | 928042 | 929525 | 931003 | 932476 | 933944 | 22 |
| 39 | 8.923587 | 925086 | 926579 | 928067 | 929550 | 931028 | 932501 | 933969 | 21 |
| 40 | 8.923612 | 925111 | 926604 | 928092 | 929575 | 931052 | 932525 | 933993 | 20 |
| 41 | 8.923637 | 925136 | 926629 | 928117 | 929599 | 931077 | 932550 | 934017 | 19 |
| 42 | 8.923662 | 925160 | 926653 | 928141 | 929624 | 931102 | 932574 | 934042 | 18 |
| 43 | 8.923687 | 925185 | 926678 | 928166 | 929649 | 931126 | 932599 | 934066 | 17 |
| 44 | 8.923712 | 925210 | 926703 | 928191 | 929673 | 931151 | 932623 | 934091 | 16 |
| 45 | 8.923737 | 925235 | 926728 | 928216 | 929698 | 931175 | 932648 | 934115 | 15 |
| 46 | 8.923762 | 925260 | 926753 | 928240 | 929723 | 931200 | 932672 | 934139 | 14 |
| 47 | 8.923787 | 925285 | 926778 | 928265 | 929747 | 931225 | 932697 | 934164 | 13 |
| 48 | 8.923812 | 925310 | 926802 | 928290 | 929772 | 931249 | 932721 | 934188 | 12 |
| 49 | 8.923837 | 925335 | 926827 | 928315 | 929797 | 931274 | 932746 | 934213 | 11 |
| 50 | 8.923862 | 925360 | 926852 | 928339 | 929821 | 931298 | 932770 | 934237 | 10 |
| 51 | 8.923887 | 925385 | 926877 | 928364 | 929846 | 931323 | 932795 | 934261 | 9 |
| 52 | 8.923912 | 925410 | 926902 | 928389 | 929871 | 931347 | 932819 | 934286 | 8 |
| 53 | 8.923937 | 925435 | 926927 | 928413 | 929895 | 931372 | 932844 | 934310 | 7 |
| 54 | 8.923962 | 925460 | 926951 | 928438 | 929920 | 931397 | 932868 | 934335 | 6 |
| 55 | 8.923987 | 925484 | 926976 | 928463 | 929945 | 931421 | 932893 | 934359 | 5 |
| 56 | 8.924012 | 925509 | 927001 | 928488 | 929969 | 931446 | 932917 | 934383 | 4 |
| 57 | 8.924037 | 925534 | 927026 | 928512 | 929994 | 931470 | 932942 | 934408 | 3 |
| 58 | 8.924062 | 925559 | 927051 | 928537 | 930019 | 931495 | 932966 | 934432 | 2 |
| 59 | 8.924087 | 925584 | 927076 | 928562 | 930043 | 931519 | 932991 | 934457 | 1 |
| 60 | 8.924112 | 925609 | 927100 | 928587 | 930068 | 931544 | 933015 | 934481 | 0 |
| " | 11' | 10' | 9' | 8' | 7' | 6' | 5' | 4' | " |

| " | 48' | 49' | 50' | 51' | 52' | 53' | 54' | 55' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8 924136 | 925649 | 927156 | 928658 | 930155 | 931647 | 933134 | 934616 | 60 |
| 1 | 8 924162 | 925674 | 927181 | 928683 | 930180 | 931672 | 933159 | 934641 | 59 |
| 2 | 8 924187 | 925699 | 927206 | 928708 | 930205 | 931697 | 933184 | 934665 | 58 |
| 3 | 8 924212 | 925724 | 927231 | 928733 | 930230 | 931722 | 933208 | 934690 | 57 |
| 4 | 8 924237 | 925749 | 927256 | 928758 | 930255 | 931746 | 933233 | 934715 | 56 |
| 5 | 8 924263 | 925775 | 927281 | 928783 | 930280 | 931771 | 933258 | 934739 | 55 |
| 6 | 8 924288 | 925800 | 927306 | 928808 | 930305 | 931796 | 933282 | 934764 | 54 |
| 7 | 8 924313 | 925825 | 927332 | 928833 | 930329 | 931821 | 933307 | 934789 | 53 |
| 8 | 8 924338 | 925850 | 927357 | 928858 | 930354 | 931846 | 933332 | 934813 | 52 |
| 9 | 8 924363 | 925875 | 927382 | 928883 | 930379 | 931870 | 933357 | 934838 | 51 |
| 10 | 8 924389 | 925900 | 927407 | 928908 | 930404 | 931895 | 933381 | 934862 | 50 |
| 11 | 8 924414 | 925925 | 927432 | 928933 | 930429 | 931920 | 933406 | 934887 | 49 |
| 12 | 8 924439 | 925951 | 927457 | 928958 | 930454 | 931945 | 933431 | 934912 | 48 |
| 13 | 8 924464 | 925976 | 927482 | 928983 | 930479 | 931970 | 933456 | 934936 | 47 |
| 14 | 8 924490 | 926001 | 927507 | 929008 | 930504 | 931995 | 933480 | 934961 | 46 |
| 15 | 8 924515 | 926026 | 927532 | 929033 | 930529 | 932019 | 933505 | 934986 | 45 |
| 16 | 8 924540 | 926051 | 927557 | 929058 | 930554 | 932044 | 933530 | 935010 | 44 |
| 17 | 8 924565 | 926076 | 927582 | 929083 | 930578 | 932069 | 933554 | 935035 | 43 |
| 18 | 8 924591 | 926101 | 927607 | 929108 | 930603 | 932094 | 933579 | 935060 | 42 |
| 19 | 8 924616 | 926127 | 927632 | 929133 | 930628 | 932119 | 933604 | 935084 | 41 |
| 20 | 8 924641 | 926152 | 927657 | 929158 | 930653 | 932143 | 933629 | 935109 | 40 |
| 21 | 8 924666 | 926177 | 927682 | 929183 | 930678 | 932168 | 933653 | 935133 | 39 |
| 22 | 8 924691 | 926202 | 927707 | 929208 | 930703 | 932193 | 933678 | 935158 | 38 |
| 23 | 8 924717 | 926227 | 927732 | 929233 | 930728 | 932218 | 933703 | 935183 | 37 |
| 24 | 8 924742 | 926252 | 927757 | 929258 | 930753 | 932242 | 933727 | 935207 | 36 |
| 25 | 8 924767 | 926277 | 927783 | 929283 | 930777 | 932267 | 933752 | 935232 | 35 |
| 26 | 8 924792 | 926303 | 927808 | 929307 | 930802 | 932292 | 933777 | 935257 | 34 |
| 27 | 8 924818 | 926328 | 927833 | 929332 | 930827 | 932317 | 933802 | 935281 | 33 |
| 28 | 8 924843 | 926353 | 927858 | 929357 | 930852 | 932342 | 933826 | 935306 | 32 |
| 29 | 8 924868 | 926378 | 927883 | 929382 | 930877 | 932366 | 933851 | 935330 | 31 |
| 30 | 8 924893 | 926403 | 927908 | 929407 | 930902 | 932391 | 933876 | 935355 | 30 |
| 31 | 8 924918 | 926428 | 927933 | 929432 | 930927 | 932416 | 933900 | 935380 | 29 |
| 32 | 8 924944 | 926453 | 927958 | 929457 | 930952 | 932441 | 933925 | 935404 | 28 |
| 33 | 8 924969 | 926478 | 927983 | 929482 | 930976 | 932466 | 933950 | 935429 | 27 |
| 34 | 8 924994 | 926503 | 928008 | 929507 | 931001 | 932490 | 933974 | 935454 | 26 |
| 35 | 8 925019 | 926529 | 928033 | 929532 | 931026 | 932515 | 933999 | 935478 | 25 |
| 36 | 8 925044 | 926554 | 928058 | 929557 | 931051 | 932540 | 934024 | 935503 | 24 |
| 37 | 8 925070 | 926579 | 928083 | 929582 | 931076 | 932565 | 934048 | 935527 | 23 |
| 38 | 8 925095 | 926604 | 928108 | 929607 | 931101 | 932589 | 934073 | 935552 | 22 |
| 39 | 8 925120 | 926629 | 928133 | 929632 | 931126 | 932614 | 934098 | 935577 | 21 |
| 40 | 8 925145 | 926654 | 928158 | 929657 | 931150 | 932639 | 934123 | 935601 | 20 |
| 41 | 8 925170 | 926679 | 928183 | 929682 | 931175 | 932664 | 934147 | 935626 | 19 |
| 42 | 8 925196 | 926704 | 928208 | 929707 | 931200 | 932688 | 934172 | 935650 | 18 |
| 43 | 8 925221 | 926729 | 928233 | 929732 | 931225 | 932713 | 934197 | 935675 | 17 |
| 44 | 8 925246 | 926755 | 928258 | 929756 | 931250 | 932738 | 934221 | 935700 | 16 |
| 45 | 8 925271 | 926780 | 928283 | 929781 | 931275 | 932763 | 934246 | 935724 | 15 |
| 46 | 8 925296 | 926805 | 928308 | 929806 | 931299 | 932788 | 934271 | 935749 | 14 |
| 47 | 8 925321 | 926830 | 928333 | 929831 | 931324 | 932812 | 934295 | 935773 | 13 |
| 48 | 8 925347 | 926855 | 928358 | 929856 | 931349 | 932837 | 934320 | 935798 | 12 |
| 49 | 8 925372 | 926880 | 928383 | 929881 | 931374 | 932862 | 934345 | 935823 | 11 |
| 50 | 8 925397 | 926905 | 928408 | 929906 | 931399 | 932887 | 934369 | 935847 | 10 |
| 51 | 8 925422 | 926930 | 928433 | 929931 | 931424 | 932911 | 934394 | 935872 | 9 |
| 52 | 8 925447 | 926955 | 928458 | 929956 | 931448 | 932936 | 934419 | 935896 | 8 |
| 53 | 8 925473 | 926980 | 928483 | 929981 | 931473 | 932961 | 934444 | 935921 | 7 |
| 54 | 8 925498 | 927006 | 928508 | 930006 | 931498 | 932986 | 934468 | 935945 | 6 |
| 55 | 8 925523 | 927031 | 928533 | 930031 | 931523 | 933010 | 934493 | 935970 | 5 |
| 56 | 8 925548 | 927056 | 928558 | 930056 | 931548 | 933035 | 934517 | 935995 | 4 |
| 57 | 8 925573 | 927081 | 928583 | 930080 | 931573 | 933060 | 934542 | 936019 | 3 |
| 58 | 8 925598 | 927106 | 928608 | 930105 | 931597 | 933085 | 934567 | 936044 | 2 |
| 59 | 8 925624 | 927131 | 928633 | 930130 | 931622 | 933109 | 934591 | 936068 | 1 |
| 60 | 8 925649 | 927156 | 928658 | 930155 | 931647 | 933134 | 934616 | 936093 | 0 |
| " | 11' | 10' | 9' | 8' | 7' | 6' | 5' | 4' | " |

| " | 56' | 57' | 58' | 59' | 56' | 57' | 58' | 59' | " |
|----|----------|--------|--------|--------|--------|--------|--------|--------|----|
| 0 | 8.934481 | 935942 | 937398 | 938850 | 936093 | 937565 | 939032 | 940494 | 60 |
| 1 | 8.934505 | 935966 | 937423 | 938874 | 936118 | 937589 | 939057 | 940519 | 59 |
| 2 | 8.934530 | 935991 | 937447 | 938898 | 936142 | 937614 | 939081 | 940543 | 58 |
| 3 | 8.934554 | 936015 | 937471 | 938922 | 936167 | 937638 | 939105 | 940567 | 57 |
| 4 | 8.934579 | 936039 | 937495 | 938946 | 936191 | 937663 | 939130 | 940592 | 56 |
| 5 | 8.934603 | 936064 | 937519 | 938970 | 936216 | 937687 | 939154 | 940616 | 55 |
| 6 | 8.934627 | 936088 | 937544 | 938994 | 936240 | 937712 | 939179 | 940640 | 54 |
| 7 | 8.934652 | 936112 | 937568 | 939019 | 936265 | 937736 | 939203 | 940665 | 53 |
| 8 | 8.934676 | 936137 | 937592 | 939043 | 936289 | 937761 | 939227 | 940689 | 52 |
| 9 | 8.934701 | 936161 | 937616 | 939067 | 936314 | 937785 | 939252 | 940713 | 51 |
| 10 | 8.934725 | 936185 | 937641 | 939091 | 936339 | 937810 | 939276 | 940738 | 50 |
| 11 | 8.934749 | 936210 | 937665 | 939115 | 936363 | 937834 | 939301 | 940762 | 49 |
| 12 | 8.934774 | 936234 | 937689 | 939139 | 936388 | 937859 | 939325 | 940786 | 48 |
| 13 | 8.934798 | 936258 | 937713 | 939163 | 936412 | 937883 | 939349 | 940811 | 47 |
| 14 | 8.934822 | 936282 | 937737 | 939188 | 936437 | 937908 | 939374 | 940835 | 46 |
| 15 | 8.934847 | 936307 | 937762 | 939212 | 936461 | 937932 | 939398 | 940859 | 45 |
| 16 | 8.934871 | 936331 | 937786 | 939236 | 936486 | 937957 | 939423 | 940883 | 44 |
| 17 | 8.934896 | 936355 | 937810 | 939260 | 936511 | 937981 | 939447 | 940908 | 43 |
| 18 | 8.934920 | 936380 | 937834 | 939284 | 936535 | 938006 | 939471 | 940932 | 42 |
| 19 | 8.934944 | 936404 | 937858 | 939308 | 936560 | 938030 | 939496 | 940956 | 41 |
| 20 | 8.934969 | 936428 | 937883 | 939332 | 936584 | 938055 | 939520 | 940981 | 40 |
| 21 | 8.934993 | 936452 | 937907 | 939356 | 936609 | 938079 | 939544 | 941005 | 39 |
| 22 | 8.935017 | 936477 | 937931 | 939381 | 936633 | 938103 | 939569 | 941029 | 38 |
| 23 | 8.935042 | 936501 | 937955 | 939405 | 936658 | 938128 | 939593 | 941054 | 37 |
| 24 | 8.935066 | 936525 | 937979 | 939429 | 936682 | 938152 | 939618 | 941078 | 36 |
| 25 | 8.935090 | 936550 | 938004 | 939453 | 936707 | 938177 | 939642 | 941102 | 35 |
| 26 | 8.935115 | 936574 | 938028 | 939477 | 936731 | 938201 | 939666 | 941126 | 34 |
| 27 | 8.935139 | 936598 | 938052 | 939501 | 936756 | 938226 | 939691 | 941151 | 33 |
| 28 | 8.935164 | 936622 | 938076 | 939525 | 936780 | 938250 | 939715 | 941175 | 32 |
| 29 | 8.935188 | 936647 | 938100 | 939549 | 936805 | 938275 | 939739 | 941199 | 31 |
| 30 | 8.935212 | 936671 | 938125 | 939573 | 936830 | 938299 | 939764 | 941224 | 30 |
| 31 | 8.935237 | 936695 | 938149 | 939598 | 936854 | 938324 | 939788 | 941248 | 29 |
| 32 | 8.935261 | 936719 | 938173 | 939622 | 936879 | 938348 | 939813 | 941272 | 28 |
| 33 | 8.935285 | 936744 | 938197 | 939646 | 936903 | 938372 | 939837 | 941297 | 27 |
| 34 | 8.935310 | 936768 | 938221 | 939670 | 936928 | 938397 | 939861 | 941321 | 26 |
| 35 | 8.935334 | 936792 | 938246 | 939694 | 936952 | 938421 | 939886 | 941345 | 25 |
| 36 | 8.935358 | 936816 | 938270 | 939718 | 936977 | 938446 | 939910 | 941369 | 24 |
| 37 | 8.935383 | 936841 | 938294 | 939742 | 937001 | 938470 | 939934 | 941394 | 23 |
| 38 | 8.935407 | 936865 | 938318 | 939766 | 937026 | 938495 | 939959 | 941418 | 22 |
| 39 | 8.935431 | 936889 | 938342 | 939790 | 937050 | 938519 | 939983 | 941442 | 21 |
| 40 | 8.935456 | 936914 | 938366 | 939814 | 937075 | 938544 | 940007 | 941467 | 20 |
| 41 | 8.935480 | 936938 | 938391 | 939839 | 937099 | 938568 | 940032 | 941491 | 19 |
| 42 | 8.935504 | 936962 | 938415 | 939863 | 937124 | 938592 | 940056 | 941515 | 18 |
| 43 | 8.935529 | 936986 | 938439 | 939887 | 937148 | 938617 | 940081 | 941539 | 17 |
| 44 | 8.935553 | 937011 | 938463 | 939911 | 937173 | 938641 | 940105 | 941564 | 16 |
| 45 | 8.935577 | 937035 | 938487 | 939935 | 937197 | 938666 | 940129 | 941588 | 15 |
| 46 | 8.935602 | 937059 | 938511 | 939959 | 937222 | 938690 | 940154 | 941612 | 14 |
| 47 | 8.935626 | 937083 | 938536 | 939983 | 937246 | 938715 | 940178 | 941636 | 13 |
| 48 | 8.935650 | 937108 | 938560 | 940007 | 937271 | 938739 | 940202 | 941661 | 12 |
| 49 | 8.935675 | 937132 | 938584 | 940031 | 937295 | 938763 | 940227 | 941685 | 11 |
| 50 | 8.935699 | 937156 | 938608 | 940055 | 937320 | 938788 | 940251 | 941710 | 10 |
| 51 | 8.935723 | 937180 | 938632 | 940079 | 937344 | 938812 | 940275 | 941733 | 9 |
| 52 | 8.935748 | 937204 | 938656 | 940103 | 937369 | 938837 | 940300 | 941758 | 8 |
| 53 | 8.935772 | 937229 | 938681 | 940128 | 937393 | 938861 | 940324 | 941782 | 7 |
| 54 | 8.935796 | 937253 | 938705 | 940152 | 937418 | 938886 | 940348 | 941806 | 6 |
| 55 | 8.935821 | 937277 | 938729 | 940176 | 937442 | 938910 | 940373 | 941831 | 5 |
| 56 | 8.935845 | 937301 | 938753 | 940200 | 937467 | 938934 | 940397 | 941855 | 4 |
| 57 | 8.935869 | 937326 | 938777 | 940224 | 937491 | 938959 | 940421 | 941879 | 3 |
| 58 | 8.935894 | 937350 | 938801 | 940248 | 937516 | 938983 | 940446 | 941903 | 2 |
| 59 | 8.935918 | 937374 | 938825 | 940272 | 937540 | 939008 | 940470 | 941928 | 1 |
| 60 | 8.935942 | 937398 | 938850 | 940296 | 937565 | 939032 | 940494 | 941952 | 0 |
| " | 3' | 2' | 1' | 0' | 3' | 2' | 1' | 0' | " |

TABLE III.

THE

LOGARITHMS

OF THE

TRIGONOMETRICAL FUNCTIONS

TO EVERY TENTH SECOND.

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-------|-----|----------|-------|----------|----------|---|----|
| 0 | 0 | — | | | — | | — | 0.000000 | 0 | 60 |
| | 10 | 5.685575 | | 0.0 | 5.685575 | | 4.314425 | 0.000000 | | 50 |
| | 20 | 5.986605 | | 0.0 | 5.986605 | | 4.013395 | 0.000000 | | 40 |
| | 30 | 6.162696 | | 0.0 | 6.162696 | | 3.837304 | 0.000000 | | 30 |
| | 40 | 6.287635 | | 0.0 | 6.287635 | | 3.712365 | 0.000000 | | 20 |
| | 50 | 6.384545 | 96910 | 0.0 | 6.384545 | 96910 | 3.615455 | 0.000000 | | 10 |
| 1 | 0 | 6.463726 | 66947 | 0.0 | 6.463726 | 66947 | 3.536274 | 0.000000 | 0 | 59 |
| | 10 | 6.530673 | 57992 | 0.0 | 6.530673 | 57992 | 3.469327 | 0.000000 | | 50 |
| | 20 | 6.588665 | 51152 | 0.0 | 6.588665 | 51152 | 3.411335 | 0.000000 | | 40 |
| | 30 | 6.639817 | 45758 | 0.0 | 6.639817 | 45758 | 3.360183 | 0.000000 | | 30 |
| | 40 | 6.685575 | 41393 | 0.0 | 6.685575 | 41393 | 3.314425 | 0.000000 | | 20 |
| | 50 | 6.726968 | 37788 | 0.0 | 6.726968 | 37788 | 3.273032 | 0.000000 | | 10 |
| 2 | 0 | 6.764756 | 34762 | 0.0 | 6.764756 | 34762 | 3.235244 | 0.000000 | 0 | 58 |
| | 10 | 6.799518 | 32185 | 0.0 | 6.799518 | 32185 | 3.200482 | 0.000000 | | 50 |
| | 20 | 6.831703 | 29963 | 0.0 | 6.831703 | 29963 | 3.168297 | 0.000000 | | 40 |
| | 30 | 6.861666 | 28029 | 0.0 | 6.861666 | 28029 | 3.138334 | 0.000000 | | 30 |
| | 40 | 6.889695 | 26329 | 0.0 | 6.889695 | 26329 | 3.110305 | 0.000000 | | 20 |
| | 50 | 6.916024 | 24823 | 0.0 | 6.916024 | 24823 | 3.083976 | 0.000000 | | 10 |
| 3 | 0 | 6.940847 | 23481 | 0.1 | 6.940847 | 23482 | 3.059153 | 0.000000 | 0 | 57 |
| | 10 | 6.964328 | 22277 | 0.1 | 6.964329 | 22276 | 3.035671 | 0.000000 | | 50 |
| | 20 | 6.986605 | 21189 | 0.1 | 6.986605 | 21189 | 3.013395 | 0.000000 | | 40 |
| | 30 | 7.007794 | 20203 | 0.1 | 7.007794 | 20204 | 2.992206 | 0.000000 | | 30 |
| | 40 | 7.027997 | 19306 | 0.1 | 7.027998 | 19305 | 2.972002 | 0.000000 | | 20 |
| | 50 | 7.047303 | 18483 | 0.1 | 7.047303 | 18483 | 2.952697 | 0.000000 | | 10 |
| 4 | 0 | 7.065786 | 17729 | 0.1 | 7.065786 | 17729 | 2.932414 | 0.000000 | 0 | 56 |
| | 10 | 7.083515 | 17033 | 0.1 | 7.083515 | 17033 | 2.916485 | 0.000000 | | 50 |
| | 20 | 7.100548 | 16391 | 0.1 | 7.100548 | 16391 | 2.899452 | 0.000000 | | 40 |
| | 30 | 7.116939 | 15794 | 0.1 | 7.116939 | 15794 | 2.883061 | 0.000000 | | 30 |
| | 40 | 7.132733 | 15240 | 0.1 | 7.132733 | 15240 | 2.867267 | 0.000000 | | 20 |
| | 50 | 7.147973 | 14723 | 0.1 | 7.147973 | 14723 | 2.852027 | 0.000000 | | 10 |
| 5 | 0 | 7.162696 | 14240 | 0.2 | 7.162696 | 14241 | 2.837304 | 0.000000 | 0 | 55 |
| | 10 | 7.176936 | 13789 | 0.2 | 7.176937 | 13788 | 2.823063 | 0.000000 | | 50 |
| | 20 | 7.190725 | 13364 | 0.2 | 7.190725 | 13364 | 2.809275 | 0.999999 | | 40 |
| | 30 | 7.204089 | 12965 | 0.2 | 7.204089 | 12965 | 2.795911 | 0.999999 | | 30 |
| | 40 | 7.217054 | 12589 | 0.2 | 7.217054 | 12589 | 2.782946 | 0.999999 | | 20 |
| | 50 | 7.229643 | 12234 | 0.2 | 7.229643 | 12235 | 2.770357 | 0.999999 | | 10 |
| 6 | 0 | 7.241877 | 11899 | 0.2 | 7.241878 | 11899 | 2.758122 | 0.999999 | 0 | 54 |
| | 10 | 7.253776 | 11582 | 0.2 | 7.253777 | 11582 | 2.746223 | 0.999999 | | 50 |
| | 20 | 7.265358 | 11281 | 0.2 | 7.265359 | 11281 | 2.734641 | 0.999999 | | 40 |
| | 30 | 7.276639 | 10995 | 0.3 | 7.276640 | 10995 | 2.723360 | 0.999999 | | 30 |
| | 40 | 7.287635 | 10723 | 0.3 | 7.287635 | 10724 | 2.712305 | 0.999999 | | 20 |
| | 50 | 7.298358 | 10466 | 0.3 | 7.298359 | 10466 | 2.701641 | 0.999999 | | 10 |
| 7 | 0 | 7.308824 | 10219 | 0.3 | 7.308825 | 10219 | 2.691175 | 0.999999 | 0 | 53 |
| | 10 | 7.319043 | 9984 | 0.3 | 7.319044 | 9984 | 2.680956 | 0.999999 | | 50 |
| | 20 | 7.329027 | 9760 | 0.3 | 7.329028 | 9760 | 2.670972 | 0.999999 | | 40 |
| | 30 | 7.338787 | 9545 | 0.3 | 7.338788 | 9545 | 2.661212 | 0.999999 | | 30 |
| | 40 | 7.348332 | 9340 | 0.4 | 7.348333 | 9340 | 2.651667 | 0.999999 | | 20 |
| | 50 | 7.357672 | 9144 | 0.4 | 7.357673 | 9144 | 2.642327 | 0.999999 | | 10 |
| 8 | 0 | 7.366816 | 8955 | 0.4 | 7.366817 | 8955 | 2.633183 | 0.999999 | 0 | 52 |
| | 10 | 7.375771 | 8773 | 0.4 | 7.375772 | 8774 | 2.624228 | 0.999999 | | 50 |
| | 20 | 7.384544 | 8601 | 0.4 | 7.384546 | 8600 | 2.615454 | 0.999999 | | 40 |
| | 30 | 7.393145 | 8433 | 0.4 | 7.393146 | 8433 | 2.606854 | 0.999999 | | 30 |
| | 40 | 7.401578 | 8272 | 0.5 | 7.401579 | 8273 | 2.598421 | 0.999999 | | 20 |
| | 50 | 7.409850 | 8118 | 0.5 | 7.409852 | 8118 | 2.590148 | 0.999999 | | 10 |
| 9 | 0 | 7.417968 | 7969 | 0.5 | 7.417970 | 7969 | 2.582030 | 0.999999 | 0 | 51 |
| | 10 | 7.425937 | 7825 | 0.5 | 7.425939 | 7825 | 2.574061 | 0.999998 | | 50 |
| | 20 | 7.433762 | 7687 | 0.5 | 7.433764 | 7687 | 2.566236 | 0.999998 | | 40 |
| | 30 | 7.441449 | 7553 | 0.6 | 7.441451 | 7553 | 2.558549 | 0.999998 | | 30 |
| | 40 | 7.449002 | 7424 | 0.6 | 7.449004 | 7424 | 2.550996 | 0.999998 | | 20 |
| | 50 | 7.456426 | 7300 | 0.6 | 7.456428 | 7299 | 2.543572 | 0.999998 | | 10 |
| 10 | 0 | 7.463726 | | 0.6 | 7.463727 | | 2.536273 | 0.999998 | 0 | 50 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|------|-----|----------|-------|----------|----------|----|----|
| 10 | 0 | 7.463726 | 7178 | 0.6 | 7.463727 | 7179 | 2.536273 | 9.999998 | 0 | 50 |
| | 10 | 7.470904 | 7062 | 0.6 | 7.470906 | 7062 | 2.529094 | 9.999998 | 50 | |
| | 20 | 7.477966 | 6949 | 0.7 | 7.477968 | 6949 | 2.522032 | 9.999998 | 40 | |
| | 30 | 7.484915 | 6839 | 0.7 | 7.484917 | 6839 | 2.515083 | 9.999998 | 30 | |
| | 40 | 7.491754 | 6734 | 0.7 | 7.491756 | 6734 | 2.508244 | 9.999998 | 20 | |
| | 50 | 7.498488 | 6630 | 0.7 | 7.498490 | 6630 | 2.501510 | 9.999998 | 10 | |
| 11 | 0 | 7.505118 | 6531 | 0.7 | 7.505120 | 6531 | 2.494880 | 9.999998 | 0 | 49 |
| | 10 | 7.511649 | 6434 | 0.8 | 7.511651 | 6434 | 2.488349 | 9.999998 | 50 | |
| | 20 | 7.518083 | 6340 | 0.8 | 7.518085 | 6341 | 2.481915 | 9.999998 | 40 | |
| | 30 | 7.524423 | 6249 | 0.8 | 7.524426 | 6249 | 2.475574 | 9.999998 | 30 | |
| | 40 | 7.530672 | 6160 | 0.8 | 7.530675 | 6160 | 2.469325 | 9.999997 | 20 | |
| | 50 | 7.536832 | 6074 | 0.9 | 7.536835 | 6074 | 2.463165 | 9.999997 | 10 | |
| 12 | 0 | 7.542906 | 5991 | 0.9 | 7.542909 | 5991 | 2.457091 | 9.999997 | 0 | 48 |
| | 10 | 7.548897 | 5909 | 0.9 | 7.548900 | 5908 | 2.451100 | 9.999997 | 50 | |
| | 20 | 7.554806 | 5829 | 0.9 | 7.554808 | 5830 | 2.445192 | 9.999997 | 40 | |
| | 30 | 7.560635 | 5752 | 1.0 | 7.560638 | 5752 | 2.439362 | 9.999997 | 30 | |
| | 40 | 7.566387 | 5678 | 1.0 | 7.566390 | 5678 | 2.433610 | 9.999997 | 20 | |
| | 50 | 7.572065 | 5603 | 1.0 | 7.572068 | 5604 | 2.427932 | 9.999997 | 10 | |
| 13 | 0 | 7.577668 | 5533 | 1.0 | 7.577672 | 5532 | 2.422328 | 9.999997 | 0 | 47 |
| | 10 | 7.583201 | 5463 | 1.1 | 7.583204 | 5463 | 2.416796 | 9.999997 | 50 | |
| | 20 | 7.588664 | 5395 | 1.1 | 7.588667 | 5395 | 2.411333 | 9.999997 | 40 | |
| | 30 | 7.594059 | 5329 | 1.1 | 7.594062 | 5329 | 2.405938 | 9.999997 | 30 | |
| | 40 | 7.599388 | 5264 | 1.1 | 7.599391 | 5264 | 2.400609 | 9.999997 | 20 | |
| | 50 | 7.604652 | 5201 | 1.2 | 7.604655 | 5202 | 2.395345 | 9.999996 | 10 | |
| 14 | 0 | 7.609853 | 5140 | 1.2 | 7.609857 | 5139 | 2.390143 | 9.999996 | 0 | 46 |
| | 10 | 7.614993 | 5079 | 1.2 | 7.614996 | 5080 | 2.385004 | 9.999996 | 50 | |
| | 20 | 7.620072 | 5021 | 1.3 | 7.620076 | 5021 | 2.379924 | 9.999996 | 40 | |
| | 30 | 7.625093 | 4963 | 1.3 | 7.625097 | 4963 | 2.374903 | 9.999996 | 30 | |
| | 40 | 7.630056 | 4908 | 1.3 | 7.630060 | 4908 | 2.369940 | 9.999996 | 20 | |
| | 50 | 7.634964 | 4852 | 1.3 | 7.634968 | 4852 | 2.365032 | 9.999996 | 10 | |
| 15 | 0 | 7.639816 | 4799 | 1.4 | 7.639820 | 4799 | 2.360180 | 9.999996 | 0 | 45 |
| | 10 | 7.644615 | 4746 | 1.4 | 7.644619 | 4747 | 2.355381 | 9.999996 | 50 | |
| | 20 | 7.649361 | 4695 | 1.4 | 7.649366 | 4695 | 2.350634 | 9.999996 | 40 | |
| | 30 | 7.654056 | 4645 | 1.5 | 7.654061 | 4645 | 2.345939 | 9.999996 | 30 | |
| | 40 | 7.658701 | 4596 | 1.5 | 7.658706 | 4596 | 2.341294 | 9.999995 | 20 | |
| | 50 | 7.663297 | 4548 | 1.5 | 7.663302 | 4547 | 2.336698 | 9.999995 | 10 | |
| 16 | 0 | 7.667845 | 4500 | 1.6 | 7.667849 | 4501 | 2.332151 | 9.999995 | 0 | 44 |
| | 10 | 7.672353 | 4454 | 1.6 | 7.672350 | 4454 | 2.327650 | 9.999995 | 50 | |
| | 20 | 7.676812 | 4409 | 1.6 | 7.676804 | 4409 | 2.323196 | 9.999995 | 40 | |
| | 30 | 7.681208 | 4365 | 1.7 | 7.681213 | 4365 | 2.318787 | 9.999995 | 30 | |
| | 40 | 7.685573 | 4322 | 1.7 | 7.685578 | 4322 | 2.314422 | 9.999995 | 20 | |
| | 50 | 7.689895 | 4278 | 1.7 | 7.689900 | 4279 | 2.310100 | 9.999995 | 10 | |
| 17 | 0 | 7.694173 | 4237 | 1.8 | 7.694179 | 4237 | 2.305821 | 9.999995 | 0 | 43 |
| | 10 | 7.698410 | 4196 | 1.8 | 7.698416 | 4196 | 2.301584 | 9.999995 | 50 | |
| | 20 | 7.702606 | 4156 | 1.8 | 7.702612 | 4156 | 2.297388 | 9.999994 | 40 | |
| | 30 | 7.706762 | 4117 | 1.9 | 7.706768 | 4117 | 2.293232 | 9.999994 | 30 | |
| | 40 | 7.710879 | 4078 | 1.9 | 7.710885 | 4078 | 2.289115 | 9.999994 | 20 | |
| | 50 | 7.714957 | 4040 | 1.9 | 7.714963 | 4040 | 2.285037 | 9.999994 | 10 | |
| 18 | 0 | 7.718997 | 4002 | 2.0 | 7.718997 | 4002 | 2.280999 | 9.999994 | 0 | 42 |
| | 10 | 7.722999 | 3966 | 2.0 | 7.722997 | 3967 | 2.276999 | 9.999994 | 50 | |
| | 20 | 7.726965 | 3931 | 2.1 | 7.726972 | 3930 | 2.273028 | 9.999994 | 40 | |
| | 30 | 7.730896 | 3895 | 2.1 | 7.730902 | 3895 | 2.269098 | 9.999994 | 30 | |
| | 40 | 7.734791 | 3860 | 2.1 | 7.734797 | 3861 | 2.265203 | 9.999994 | 20 | |
| | 50 | 7.738651 | 3827 | 2.2 | 7.738658 | 3826 | 2.261342 | 9.999993 | 10 | |
| 19 | 0 | 7.742478 | 3792 | 2.2 | 7.742484 | 3793 | 2.257516 | 9.999993 | 0 | 41 |
| | 10 | 7.746270 | 3761 | 2.2 | 7.746277 | 3760 | 2.253723 | 9.999993 | 50 | |
| | 20 | 7.750031 | 3727 | 2.3 | 7.750037 | 3728 | 2.249963 | 9.999993 | 40 | |
| | 30 | 7.753758 | 3697 | 2.3 | 7.753765 | 3697 | 2.246235 | 9.999993 | 30 | |
| | 40 | 7.757455 | 3664 | 2.4 | 7.757462 | 3665 | 2.242538 | 9.999993 | 20 | |
| | 50 | 7.761119 | 3635 | 2.4 | 7.761127 | 3634 | 2.238873 | 9.999993 | 10 | |
| 20 | 0 | 7.764754 | | 2.4 | 7.764761 | | 2.235239 | 9.999993 | 0 | 40 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|------|-----|----------|-------|----------|----------|----|----|
| 20 | 0 | 7.761751 | 3604 | 2.4 | 7.764761 | 3604 | 2.235239 | 9.999993 | 0 | 40 |
| | 10 | 7.771358 | 3574 | 2.5 | 7.768365 | 3575 | 2.231635 | 9.999993 | 50 | |
| | 20 | 7.771932 | 3545 | 2.5 | 7.771940 | 3545 | 2.228060 | 9.999992 | 40 | |
| | 30 | 7.775477 | 3517 | 2.6 | 7.775485 | 3517 | 2.224515 | 9.999992 | 30 | |
| | 40 | 7.778994 | 3488 | 2.6 | 7.779002 | 3488 | 2.220998 | 9.999992 | 20 | |
| | 50 | 7.782482 | 3461 | 2.7 | 7.782490 | 3461 | 2.217510 | 9.999992 | 10 | |
| 21 | 0 | 7.785943 | 3433 | 2.7 | 7.785951 | 3433 | 2.214049 | 9.999992 | 0 | 39 |
| | 10 | 7.789376 | 3406 | 2.7 | 7.789384 | 3406 | 2.210616 | 9.999992 | 50 | |
| | 20 | 7.792782 | 3380 | 2.8 | 7.792790 | 3380 | 2.207210 | 9.999992 | 40 | |
| | 30 | 7.796162 | 3353 | 2.8 | 7.796170 | 3354 | 2.203830 | 9.999992 | 30 | |
| | 40 | 7.799515 | 3328 | 2.9 | 7.799524 | 3328 | 2.200476 | 9.999991 | 20 | |
| | 50 | 7.802843 | 3303 | 2.9 | 7.802852 | 3303 | 2.197148 | 9.999991 | 10 | |
| 22 | 0 | 7.806146 | 3277 | 3.0 | 7.806155 | 3278 | 2.193845 | 9.999991 | 0 | 38 |
| | 10 | 7.809423 | 3254 | 3.0 | 7.809433 | 3253 | 2.190567 | 9.999991 | 50 | |
| | 20 | 7.812677 | 3229 | 3.1 | 7.812686 | 3229 | 2.187314 | 9.999991 | 40 | |
| | 30 | 7.815906 | 3205 | 3.1 | 7.815915 | 3205 | 2.184085 | 9.999991 | 30 | |
| | 40 | 7.819111 | 3181 | 3.1 | 7.819120 | 3182 | 2.180880 | 9.999991 | 20 | |
| | 50 | 7.822292 | 3159 | 3.2 | 7.822302 | 3158 | 2.177698 | 9.999990 | 10 | |
| 23 | 0 | 7.825451 | 3135 | 3.2 | 7.825460 | 3136 | 2.174540 | 9.999990 | 0 | 37 |
| | 10 | 7.828586 | 3114 | 3.3 | 7.828596 | 3114 | 2.171404 | 9.999990 | 50 | |
| | 20 | 7.831700 | 3091 | 3.3 | 7.831710 | 3091 | 2.168290 | 9.999990 | 40 | |
| | 30 | 7.834791 | 3069 | 3.4 | 7.834801 | 3069 | 2.165199 | 9.999990 | 30 | |
| | 40 | 7.837860 | 3047 | 3.4 | 7.837870 | 3048 | 2.162130 | 9.999990 | 20 | |
| | 50 | 7.840907 | 3027 | 3.5 | 7.840918 | 3026 | 2.159082 | 9.999990 | 10 | |
| 24 | 0 | 7.843934 | 3005 | 3.5 | 7.843944 | 3006 | 2.156056 | 9.999989 | 0 | 36 |
| | 10 | 7.846939 | 2985 | 3.6 | 7.846950 | 2985 | 2.153050 | 9.999989 | 50 | |
| | 20 | 7.849924 | 2965 | 3.6 | 7.849935 | 2965 | 2.150065 | 9.999989 | 40 | |
| | 30 | 7.852889 | 2944 | 3.7 | 7.852900 | 2944 | 2.147100 | 9.999989 | 30 | |
| | 40 | 7.855833 | 2924 | 3.7 | 7.855844 | 2925 | 2.144156 | 9.999989 | 20 | |
| | 50 | 7.858757 | 2905 | 3.8 | 7.858769 | 2905 | 2.141231 | 9.999989 | 10 | |
| 25 | 0 | 7.861662 | 2886 | 3.8 | 7.861674 | 2886 | 2.138326 | 9.999989 | 0 | 35 |
| | 10 | 7.864548 | 2867 | 3.9 | 7.864560 | 2866 | 2.135440 | 9.999988 | 50 | |
| | 20 | 7.867415 | 2847 | 3.9 | 7.867426 | 2848 | 2.132574 | 9.999988 | 40 | |
| | 30 | 7.870262 | 2830 | 4.0 | 7.870274 | 2830 | 2.129726 | 9.999988 | 30 | |
| | 40 | 7.873092 | 2810 | 4.0 | 7.873104 | 2811 | 2.126896 | 9.999988 | 20 | |
| | 50 | 7.875902 | 2793 | 4.1 | 7.875915 | 2793 | 2.124085 | 9.999988 | 10 | |
| 26 | 0 | 7.878695 | 2775 | 4.1 | 7.878708 | 2775 | 2.121292 | 9.999988 | 0 | 34 |
| | 10 | 7.881470 | 2758 | 4.2 | 7.881483 | 2757 | 2.118517 | 9.999987 | 50 | |
| | 20 | 7.884228 | 2740 | 4.2 | 7.884240 | 2741 | 2.115760 | 9.999987 | 40 | |
| | 30 | 7.886968 | 2722 | 4.3 | 7.886981 | 2723 | 2.113019 | 9.999987 | 30 | |
| | 40 | 7.889690 | 2706 | 4.4 | 7.889704 | 2706 | 2.110296 | 9.999987 | 20 | |
| | 50 | 7.892396 | 2689 | 4.4 | 7.892410 | 2689 | 2.107590 | 9.999987 | 10 | |
| 27 | 0 | 7.895085 | 2673 | 4.5 | 7.895099 | 2673 | 2.104901 | 9.999987 | 0 | 33 |
| | 10 | 7.897758 | 2656 | 4.5 | 7.897772 | 2656 | 2.102228 | 9.999987 | 50 | |
| | 20 | 7.900414 | 2640 | 4.6 | 7.900428 | 2640 | 2.099572 | 9.999986 | 40 | |
| | 30 | 7.903054 | 2624 | 4.6 | 7.903068 | 2624 | 2.096932 | 9.999986 | 30 | |
| | 40 | 7.905678 | 2609 | 4.7 | 7.905692 | 2609 | 2.094308 | 9.999986 | 20 | |
| | 50 | 7.908287 | 2592 | 4.7 | 7.908301 | 2593 | 2.091699 | 9.999986 | 10 | |
| 28 | 0 | 7.910879 | 2578 | 4.8 | 7.910894 | 2577 | 2.089106 | 9.999986 | 0 | 32 |
| | 10 | 7.913457 | 2562 | 4.9 | 7.913471 | 2563 | 2.086529 | 9.999985 | 50 | |
| | 20 | 7.916019 | 2547 | 4.9 | 7.916034 | 2547 | 2.083966 | 9.999985 | 40 | |
| | 30 | 7.918566 | 2532 | 5.0 | 7.918581 | 2532 | 2.081419 | 9.999985 | 30 | |
| | 40 | 7.921098 | 2518 | 5.0 | 7.921113 | 2518 | 2.078887 | 9.999985 | 20 | |
| | 50 | 7.923616 | 2503 | 5.1 | 7.923631 | 2503 | 2.076369 | 9.999985 | 10 | |
| 29 | 0 | 7.926119 | 2489 | 5.2 | 7.926134 | 2489 | 2.073866 | 9.999985 | 0 | 31 |
| | 10 | 7.928608 | 2474 | 5.2 | 7.928623 | 2475 | 2.071377 | 9.999984 | 50 | |
| | 20 | 7.931082 | 2461 | 5.3 | 7.931098 | 2461 | 2.068902 | 9.999984 | 40 | |
| | 30 | 7.933543 | 2446 | 5.3 | 7.933559 | 2447 | 2.066441 | 9.999984 | 30 | |
| | 40 | 7.935989 | 2433 | 5.4 | 7.935998 | 2433 | 2.063994 | 9.999984 | 20 | |
| | 50 | 7.938422 | 2420 | 5.5 | 7.938439 | 2419 | 2.061561 | 9.999984 | 10 | |
| 30 | 0 | 7.940842 | | 5.5 | 7.940858 | | 2.059142 | 9.999983 | 0 | 30 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|------|-----|----------|-------|----------|----------|----|----|
| 30 | o | 7.940842 | 2406 | 5.5 | 7.940858 | 2407 | 2.059142 | 9.999983 | o | 30 |
| | 10 | 7.943248 | 2393 | 5.6 | 7.943265 | 2393 | 2.056735 | 9.999983 | 50 | |
| | 20 | 7.945641 | 2379 | 5.6 | 7.945658 | 2379 | 2.054342 | 9.999983 | 40 | |
| | 30 | 7.948020 | 2367 | 5.7 | 7.948037 | 2367 | 2.051963 | 9.999983 | 30 | |
| | 40 | 7.950387 | 2354 | 5.8 | 7.950404 | 2354 | 2.049596 | 9.999983 | 20 | |
| | 50 | 7.952741 | 2341 | 5.8 | 7.952758 | 2342 | 2.047242 | 9.999983 | 10 | |
| 31 | o | 7.955082 | 2329 | 5.9 | 7.955100 | 2328 | 2.044900 | 9.999982 | o | 29 |
| | 10 | 7.957411 | 2316 | 5.9 | 7.957428 | 2317 | 2.042572 | 9.999982 | 50 | |
| | 20 | 7.959727 | 2304 | 6.0 | 7.959745 | 2304 | 2.040255 | 9.999982 | 40 | |
| | 30 | 7.962031 | 2291 | 6.1 | 7.962049 | 2292 | 2.037951 | 9.999982 | 30 | |
| | 40 | 7.964322 | 2280 | 6.1 | 7.964341 | 2280 | 2.035659 | 9.999982 | 20 | |
| | 50 | 7.966602 | 2268 | 6.2 | 7.966621 | 2268 | 2.033379 | 9.999981 | 10 | |
| 32 | o | 7.968870 | 2256 | 6.3 | 7.968889 | 2256 | 2.031111 | 9.999981 | o | 28 |
| | 10 | 7.971126 | 2244 | 6.3 | 7.971145 | 2244 | 2.028855 | 9.999981 | 50 | |
| | 20 | 7.973370 | 2233 | 6.4 | 7.973389 | 2233 | 2.026611 | 9.999981 | 40 | |
| | 30 | 7.975603 | 2221 | 6.5 | 7.975622 | 2222 | 2.024378 | 9.999981 | 30 | |
| | 40 | 7.977824 | 2210 | 6.5 | 7.977844 | 2210 | 2.022156 | 9.999980 | 20 | |
| | 50 | 7.980034 | 2199 | 6.6 | 7.980054 | 2199 | 2.019946 | 9.999980 | 10 | |
| 33 | o | 7.982233 | 2188 | 6.7 | 7.982253 | 2188 | 2.017747 | 9.999980 | o | 27 |
| | 10 | 7.984421 | 2177 | 6.7 | 7.984441 | 2177 | 2.015559 | 9.999980 | 50 | |
| | 20 | 7.986598 | 2166 | 6.8 | 7.986618 | 2167 | 2.013382 | 9.999980 | 40 | |
| | 30 | 7.988764 | 2155 | 6.9 | 7.988785 | 2155 | 2.011215 | 9.999979 | 30 | |
| | 40 | 7.990919 | 2145 | 6.9 | 7.990940 | 2145 | 2.009060 | 9.999979 | 20 | |
| | 50 | 7.993064 | 2134 | 7.0 | 7.993085 | 2134 | 2.006915 | 9.999979 | 10 | |
| 34 | o | 7.995198 | 2124 | 7.1 | 7.995219 | 2124 | 2.004781 | 9.999979 | o | 26 |
| | 10 | 7.997322 | 2113 | 7.1 | 7.997343 | 2114 | 2.002657 | 9.999979 | 50 | |
| | 20 | 7.999435 | 2103 | 7.2 | 7.999457 | 2103 | 2.000543 | 9.999978 | 40 | |
| | 30 | 8.001538 | 2093 | 7.3 | 8.001560 | 2093 | 1.998440 | 9.999978 | 30 | |
| | 40 | 8.003631 | 2083 | 7.4 | 8.003653 | 2083 | 1.996347 | 9.999978 | 20 | |
| | 50 | 8.005714 | 2073 | 7.4 | 8.005736 | 2073 | 1.994264 | 9.999978 | 10 | |
| 35 | o | 8.007787 | 2063 | 7.5 | 8.007809 | 2063 | 1.992191 | 9.999977 | o | 25 |
| | 10 | 8.009850 | 2053 | 7.6 | 8.009872 | 2054 | 1.990128 | 9.999977 | 50 | |
| | 20 | 8.011903 | 2044 | 7.6 | 8.011926 | 2044 | 1.988074 | 9.999977 | 40 | |
| | 30 | 8.013947 | 2034 | 7.7 | 8.013970 | 2034 | 1.986030 | 9.999977 | 30 | |
| | 40 | 8.015981 | 2024 | 7.8 | 8.016004 | 2025 | 1.983996 | 9.999977 | 20 | |
| | 50 | 8.018005 | 2016 | 7.9 | 8.018029 | 2015 | 1.981971 | 9.999977 | 10 | |
| 36 | o | 8.020021 | 2006 | 7.9 | 8.020044 | 2007 | 1.979956 | 9.999976 | o | 24 |
| | 10 | 8.022027 | 1996 | 8.0 | 8.022051 | 1997 | 1.977949 | 9.999976 | 50 | |
| | 20 | 8.024023 | 1988 | 8.1 | 8.024048 | 1987 | 1.975952 | 9.999976 | 40 | |
| | 30 | 8.026011 | 1978 | 8.2 | 8.026035 | 1979 | 1.973965 | 9.999976 | 30 | |
| | 40 | 8.027989 | 1970 | 8.2 | 8.028014 | 1970 | 1.971986 | 9.999975 | 20 | |
| | 50 | 8.029959 | 1960 | 8.3 | 8.029984 | 1961 | 1.970016 | 9.999975 | 10 | |
| 37 | o | 8.031919 | 1952 | 8.4 | 8.031945 | 1952 | 1.968055 | 9.999975 | o | 23 |
| | 10 | 8.033871 | 1943 | 8.5 | 8.033897 | 1943 | 1.966103 | 9.999975 | 50 | |
| | 20 | 8.035814 | 1935 | 8.5 | 8.035840 | 1935 | 1.964160 | 9.999974 | 40 | |
| | 30 | 8.037749 | 1926 | 8.6 | 8.037775 | 1926 | 1.962225 | 9.999974 | 30 | |
| | 40 | 8.039675 | 1917 | 8.7 | 8.039701 | 1917 | 1.960299 | 9.999974 | 20 | |
| | 50 | 8.041592 | 1909 | 8.8 | 8.041618 | 1909 | 1.958382 | 9.999974 | 10 | |
| 38 | o | 8.043501 | 1900 | 8.8 | 8.043527 | 1901 | 1.956473 | 9.999973 | o | 22 |
| | 10 | 8.045401 | 1893 | 8.9 | 8.045428 | 1893 | 1.954572 | 9.999973 | 50 | |
| | 20 | 8.047294 | 1884 | 9.0 | 8.047321 | 1884 | 1.952679 | 9.999973 | 40 | |
| | 30 | 8.049178 | 1876 | 9.1 | 8.049205 | 1876 | 1.950795 | 9.999973 | 30 | |
| | 40 | 8.051054 | 1868 | 9.2 | 8.051081 | 1868 | 1.948919 | 9.999973 | 20 | |
| | 50 | 8.052922 | 1859 | 9.2 | 8.052949 | 1860 | 1.947051 | 9.999972 | 10 | |
| 39 | o | 8.054781 | 1852 | 9.3 | 8.054809 | 1853 | 1.945191 | 9.999972 | o | 21 |
| | 10 | 8.056633 | 1844 | 9.4 | 8.056662 | 1844 | 1.943338 | 9.999972 | 50 | |
| | 20 | 8.058477 | 1837 | 9.5 | 8.058506 | 1836 | 1.941494 | 9.999972 | 40 | |
| | 30 | 8.060314 | 1828 | 9.6 | 8.060342 | 1829 | 1.939658 | 9.999971 | 30 | |
| | 40 | 8.062142 | 1821 | 9.6 | 8.062171 | 1821 | 1.937829 | 9.999971 | 20 | |
| | 50 | 8.063963 | 1813 | 9.7 | 8.063992 | 1814 | 1.936008 | 9.999971 | 10 | |
| 40 | o | 8.065776 | 1813 | 9.8 | 8.065806 | 1814 | 1.934194 | 9.999971 | o | 20 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| | | Sin | d. | b. | Tang | d. c. | Cotg | Cos | | |
|----|----|----------|------|------|----------|-------|----------|----------|----|----|
| 40 | o | 8.065776 | 1806 | 9.8 | 8.065806 | 1806 | 1.934194 | 9.999971 | o | 20 |
| | 10 | 8.067582 | 1798 | 9.9 | 8.067612 | 1798 | 1.932388 | 9.999970 | 50 | |
| | 20 | 8.069380 | 1791 | 10.0 | 8.069410 | 1791 | 1.930590 | 9.999970 | 40 | |
| | 30 | 8.071171 | 1784 | 10.1 | 8.071201 | 1784 | 1.928799 | 9.999970 | 30 | |
| | 40 | 8.072955 | 1776 | 10.1 | 8.072985 | 1776 | 1.927015 | 9.999970 | 20 | |
| | 50 | 8.074731 | 1769 | 10.2 | 8.074761 | 1770 | 1.925239 | 9.999969 | 10 | |
| 41 | o | 8.076500 | 1761 | 10.3 | 8.076531 | 1762 | 1.923469 | 9.999969 | o | 19 |
| | 10 | 8.078261 | 1755 | 10.4 | 8.078293 | 1754 | 1.921707 | 9.999969 | 50 | |
| | 20 | 8.080016 | 1748 | 10.5 | 8.080047 | 1748 | 1.919953 | 9.999969 | 40 | |
| | 30 | 8.081764 | 1740 | 10.5 | 8.081795 | 1741 | 1.918205 | 9.999968 | 30 | |
| | 40 | 8.083504 | 1734 | 10.6 | 8.083536 | 1734 | 1.916464 | 9.999968 | 20 | |
| | 50 | 8.085238 | 1727 | 10.7 | 8.085270 | 1727 | 1.914730 | 9.999968 | 10 | |
| 42 | o | 8.086965 | 1719 | 10.8 | 8.086997 | 1720 | 1.913003 | 9.999968 | o | 18 |
| | 10 | 8.088684 | 1714 | 10.9 | 8.088717 | 1714 | 1.911283 | 9.999967 | 50 | |
| | 20 | 8.090398 | 1706 | 11.0 | 8.090431 | 1706 | 1.909569 | 9.999967 | 40 | |
| | 30 | 8.092104 | 1700 | 11.1 | 8.092137 | 1700 | 1.907863 | 9.999967 | 30 | |
| | 40 | 8.093804 | 1693 | 11.1 | 8.093837 | 1693 | 1.906163 | 9.999967 | 20 | |
| | 50 | 8.095497 | 1686 | 11.2 | 8.095530 | 1687 | 1.904470 | 9.999966 | 10 | |
| 43 | o | 8.097183 | 1680 | 11.3 | 8.097217 | 1680 | 1.902783 | 9.999966 | o | 17 |
| | 10 | 8.098863 | 1674 | 11.4 | 8.098897 | 1674 | 1.901103 | 9.999966 | 50 | |
| | 20 | 8.100537 | 1667 | 11.5 | 8.100571 | 1668 | 1.899429 | 9.999965 | 40 | |
| | 30 | 8.102204 | 1660 | 11.6 | 8.102239 | 1661 | 1.897761 | 9.999965 | 30 | |
| | 40 | 8.103864 | 1655 | 11.7 | 8.103900 | 1654 | 1.896100 | 9.999965 | 20 | |
| | 50 | 8.105519 | 1648 | 11.8 | 8.105554 | 1649 | 1.894446 | 9.999965 | 10 | |
| 44 | o | 8.107167 | 1642 | 11.9 | 8.107203 | 1642 | 1.892797 | 9.999964 | o | 16 |
| | 10 | 8.108809 | 1635 | 11.9 | 8.108845 | 1636 | 1.891155 | 9.999964 | 50 | |
| | 20 | 8.110444 | 1630 | 12.0 | 8.110481 | 1629 | 1.889519 | 9.999964 | 40 | |
| | 30 | 8.112074 | 1623 | 12.1 | 8.112110 | 1624 | 1.887890 | 9.999964 | 30 | |
| | 40 | 8.113697 | 1618 | 12.2 | 8.113734 | 1618 | 1.886266 | 9.999963 | 20 | |
| | 50 | 8.115315 | 1611 | 12.3 | 8.115352 | 1611 | 1.884648 | 9.999963 | 10 | |
| 45 | o | 8.116926 | 1606 | 12.4 | 8.116963 | 1606 | 1.883037 | 9.999963 | o | 15 |
| | 10 | 8.118532 | 1599 | 12.5 | 8.118569 | 1600 | 1.881431 | 9.999963 | 50 | |
| | 20 | 8.120131 | 1594 | 12.6 | 8.120169 | 1594 | 1.879831 | 9.999962 | 40 | |
| | 30 | 8.121725 | 1588 | 12.7 | 8.121763 | 1588 | 1.878237 | 9.999962 | 30 | |
| | 40 | 8.123313 | 1582 | 12.8 | 8.123351 | 1582 | 1.876649 | 9.999962 | 20 | |
| | 50 | 8.124895 | 1576 | 12.9 | 8.124933 | 1577 | 1.875067 | 9.999961 | 10 | |
| 46 | o | 8.126471 | 1571 | 13.0 | 8.126510 | 1571 | 1.873490 | 9.999961 | o | 14 |
| | 10 | 8.128042 | 1565 | 13.1 | 8.128081 | 1565 | 1.871919 | 9.999961 | 50 | |
| | 20 | 8.129607 | 1559 | 13.1 | 8.129646 | 1560 | 1.870354 | 9.999961 | 40 | |
| | 30 | 8.131166 | 1554 | 13.2 | 8.131206 | 1554 | 1.868794 | 9.999960 | 30 | |
| | 40 | 8.132720 | 1548 | 13.3 | 8.132760 | 1548 | 1.867240 | 9.999960 | 20 | |
| | 50 | 8.134268 | 1542 | 13.4 | 8.134308 | 1543 | 1.865692 | 9.999960 | 10 | |
| 47 | o | 8.135810 | 1538 | 13.5 | 8.135851 | 1538 | 1.864151 | 9.999959 | o | 13 |
| | 10 | 8.137348 | 1531 | 13.6 | 8.137389 | 1532 | 1.862611 | 9.999959 | 50 | |
| | 20 | 8.138879 | 1527 | 13.7 | 8.138921 | 1526 | 1.861079 | 9.999959 | 40 | |
| | 30 | 8.140406 | 1521 | 13.8 | 8.140447 | 1522 | 1.859553 | 9.999959 | 30 | |
| | 40 | 8.141927 | 1516 | 13.9 | 8.141969 | 1516 | 1.858031 | 9.999958 | 20 | |
| | 50 | 8.143443 | 1510 | 14.0 | 8.143485 | 1511 | 1.856515 | 9.999958 | 10 | |
| 48 | o | 8.144953 | 1505 | 14.1 | 8.144995 | 1505 | 1.855004 | 9.999958 | o | 12 |
| | 10 | 8.146453 | 1501 | 14.2 | 8.146501 | 1500 | 1.853499 | 9.999957 | 50 | |
| | 20 | 8.147959 | 1494 | 14.3 | 8.148001 | 1496 | 1.851999 | 9.999957 | 40 | |
| | 30 | 8.149453 | 1490 | 14.4 | 8.149497 | 1490 | 1.850503 | 9.999957 | 30 | |
| | 40 | 8.150943 | 1485 | 14.5 | 8.150987 | 1485 | 1.849013 | 9.999956 | 20 | |
| | 50 | 8.152428 | 1479 | 14.6 | 8.152472 | 1480 | 1.847528 | 9.999956 | 10 | |
| 49 | o | 8.153907 | 1475 | 14.7 | 8.153952 | 1474 | 1.846048 | 9.999956 | o | 11 |
| | 10 | 8.155382 | 1470 | 14.8 | 8.155426 | 1470 | 1.844574 | 9.999956 | 50 | |
| | 20 | 8.156852 | 1464 | 14.9 | 8.156896 | 1465 | 1.843104 | 9.999955 | 40 | |
| | 30 | 8.158316 | 1460 | 15.0 | 8.158361 | 1460 | 1.841639 | 9.999955 | 30 | |
| | 40 | 8.159776 | 1455 | 15.1 | 8.159821 | 1455 | 1.840179 | 9.999955 | 20 | |
| | 50 | 8.161231 | 1450 | 15.2 | 8.161275 | 1451 | 1.838724 | 9.999954 | 10 | |
| 50 | o | 8.162681 | 1450 | 15.3 | 8.162727 | 1451 | 1.837273 | 9.999954 | o | 10 |
| | | Cos | d. | b. | Cotg | d. c. | Tang | Sin | | |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|------|------|----------|-------|----------|----------|----|----|
| 50 | 0 | 8.162681 | 1445 | 15.3 | 8.162727 | 1445 | 1.837273 | 9.999954 | 0 | 10 |
| | 10 | 8.164126 | 1440 | 15.4 | 8.164172 | 1441 | 1.835828 | 9.999954 | 50 | |
| | 20 | 8.165566 | 1436 | 15.5 | 8.165613 | 1436 | 1.834387 | 9.999953 | 40 | |
| | 30 | 8.167002 | 1431 | 15.6 | 8.167049 | 1431 | 1.832951 | 9.999953 | 30 | |
| | 40 | 8.168433 | 1426 | 15.7 | 8.168480 | 1426 | 1.831520 | 9.999953 | 20 | |
| | 50 | 8.169859 | 1421 | 15.8 | 8.169906 | 1422 | 1.830094 | 9.999953 | 10 | |
| 51 | 0 | 8.171280 | 1417 | 15.9 | 8.171328 | 1417 | 1.828672 | 9.999952 | 0 | 9 |
| | 10 | 8.172697 | 1412 | 16.0 | 8.172745 | 1413 | 1.827255 | 9.999952 | 50 | |
| | 20 | 8.174109 | 1408 | 16.1 | 8.174158 | 1408 | 1.825842 | 9.999952 | 40 | |
| | 30 | 8.175517 | 1403 | 16.2 | 8.175566 | 1403 | 1.824434 | 9.999951 | 30 | |
| | 40 | 8.176920 | 1399 | 16.3 | 8.176969 | 1399 | 1.823031 | 9.999951 | 20 | |
| | 50 | 8.178319 | 1394 | 16.5 | 8.178368 | 1395 | 1.821632 | 9.999951 | 10 | |
| 52 | 0 | 8.179713 | 1390 | 16.6 | 8.179763 | 1390 | 1.820237 | 9.999950 | 0 | 8 |
| | 10 | 8.181103 | 1385 | 16.7 | 8.181153 | 1385 | 1.818847 | 9.999950 | 50 | |
| | 20 | 8.182488 | 1381 | 16.8 | 8.182538 | 1381 | 1.817462 | 9.999950 | 40 | |
| | 30 | 8.183869 | 1376 | 16.9 | 8.183919 | 1377 | 1.816081 | 9.999949 | 30 | |
| | 40 | 8.185245 | 1372 | 17.0 | 8.185296 | 1372 | 1.814704 | 9.999949 | 20 | |
| | 50 | 8.186617 | 1368 | 17.1 | 8.186668 | 1368 | 1.813332 | 9.999949 | 10 | |
| 53 | 0 | 8.187985 | 1363 | 17.2 | 8.188036 | 1364 | 1.811964 | 9.999948 | 0 | 7 |
| | 10 | 8.189348 | 1359 | 17.3 | 8.189400 | 1360 | 1.810600 | 9.999948 | 50 | |
| | 20 | 8.190707 | 1355 | 17.4 | 8.190760 | 1355 | 1.809240 | 9.999948 | 40 | |
| | 30 | 8.192062 | 1351 | 17.5 | 8.192115 | 1351 | 1.807885 | 9.999947 | 30 | |
| | 40 | 8.193413 | 1347 | 17.6 | 8.193466 | 1347 | 1.806534 | 9.999947 | 20 | |
| | 50 | 8.194760 | 1342 | 17.7 | 8.194813 | 1343 | 1.805187 | 9.999947 | 10 | |
| 54 | 0 | 8.196102 | 1338 | 17.9 | 8.196156 | 1338 | 1.803844 | 9.999946 | 0 | 6 |
| | 10 | 8.197440 | 1334 | 18.0 | 8.197494 | 1335 | 1.802506 | 9.999946 | 50 | |
| | 20 | 8.198774 | 1330 | 18.1 | 8.198829 | 1330 | 1.801171 | 9.999946 | 40 | |
| | 30 | 8.200104 | 1326 | 18.2 | 8.200159 | 1326 | 1.799841 | 9.999945 | 30 | |
| | 40 | 8.201430 | 1322 | 18.3 | 8.201485 | 1323 | 1.798515 | 9.999945 | 20 | |
| | 50 | 8.202752 | 1318 | 18.4 | 8.202808 | 1318 | 1.797192 | 9.999945 | 10 | |
| 55 | 0 | 8.204070 | 1314 | 18.5 | 8.204126 | 1314 | 1.795874 | 9.999944 | 0 | 5 |
| | 10 | 8.205384 | 1310 | 18.6 | 8.205440 | 1310 | 1.794560 | 9.999944 | 50 | |
| | 20 | 8.206694 | 1306 | 18.8 | 8.206750 | 1307 | 1.793250 | 9.999944 | 40 | |
| | 30 | 8.208000 | 1302 | 18.9 | 8.208057 | 1302 | 1.791943 | 9.999943 | 30 | |
| | 40 | 8.209302 | 1299 | 19.0 | 8.209359 | 1299 | 1.790641 | 9.999943 | 20 | |
| | 50 | 8.210601 | 1294 | 19.1 | 8.210658 | 1295 | 1.789342 | 9.999943 | 10 | |
| 56 | 0 | 8.211895 | 1290 | 19.2 | 8.211953 | 1290 | 1.788047 | 9.999942 | 0 | 4 |
| | 10 | 8.213185 | 1287 | 19.3 | 8.213243 | 1287 | 1.786757 | 9.999942 | 50 | |
| | 20 | 8.214472 | 1283 | 19.4 | 8.214530 | 1284 | 1.785471 | 9.999942 | 40 | |
| | 30 | 8.215755 | 1279 | 19.6 | 8.215814 | 1279 | 1.784189 | 9.999941 | 30 | |
| | 40 | 8.217034 | 1275 | 19.7 | 8.217093 | 1276 | 1.782907 | 9.999941 | 20 | |
| | 50 | 8.218309 | 1272 | 19.8 | 8.218369 | 1272 | 1.781631 | 9.999941 | 10 | |
| 57 | 0 | 8.219581 | 1268 | 19.9 | 8.219641 | 1268 | 1.780359 | 9.999940 | 0 | 3 |
| | 10 | 8.220849 | 1264 | 20.0 | 8.220909 | 1265 | 1.779091 | 9.999940 | 50 | |
| | 20 | 8.222113 | 1261 | 20.1 | 8.222174 | 1260 | 1.777826 | 9.999940 | 40 | |
| | 30 | 8.223374 | 1257 | 20.3 | 8.223434 | 1258 | 1.776566 | 9.999939 | 30 | |
| | 40 | 8.224631 | 1253 | 20.4 | 8.224692 | 1253 | 1.775308 | 9.999939 | 20 | |
| | 50 | 8.225884 | 1250 | 20.5 | 8.225945 | 1250 | 1.774055 | 9.999939 | 10 | |
| 58 | 0 | 8.227134 | 1246 | 20.6 | 8.227195 | 1247 | 1.772805 | 9.999938 | 0 | 2 |
| | 10 | 8.228380 | 1242 | 20.7 | 8.228441 | 1243 | 1.771558 | 9.999938 | 50 | |
| | 20 | 8.229622 | 1239 | 20.8 | 8.229685 | 1239 | 1.770315 | 9.999937 | 40 | |
| | 30 | 8.230861 | 1235 | 21.0 | 8.230924 | 1236 | 1.769076 | 9.999937 | 30 | |
| | 40 | 8.232096 | 1232 | 21.1 | 8.232156 | 1232 | 1.767840 | 9.999937 | 20 | |
| | 50 | 8.233328 | 1229 | 21.2 | 8.233381 | 1229 | 1.766608 | 9.999936 | 10 | |
| 59 | 0 | 8.234557 | 1225 | 21.3 | 8.234621 | 1225 | 1.765379 | 9.999936 | 0 | 1 |
| | 10 | 8.235782 | 1221 | 21.4 | 8.235846 | 1222 | 1.764154 | 9.999936 | 50 | |
| | 20 | 8.237003 | 1218 | 21.6 | 8.237068 | 1218 | 1.762932 | 9.999935 | 40 | |
| | 30 | 8.238221 | 1215 | 21.7 | 8.238286 | 1216 | 1.761714 | 9.999935 | 30 | |
| | 40 | 8.239436 | 1211 | 21.8 | 8.239502 | 1211 | 1.760498 | 9.999935 | 20 | |
| | 50 | 8.240647 | 1208 | 21.9 | 8.240713 | 1208 | 1.759287 | 9.999934 | 10 | |
| 60 | 0 | 8.241855 | | 22.0 | 8.241921 | | 1.758079 | 9.999934 | 0 | 0 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|------|------|----------|-------|----------|----------|----|----|
| 0 | 0 | 8.241855 | 1205 | 22.0 | 8.241921 | 1205 | 1.758079 | 9.999934 | 0 | 60 |
| | 10 | 8.243060 | 1201 | 22.2 | 8.243126 | 1202 | 1.756874 | 9.999933 | 50 | |
| | 20 | 8.244261 | 1198 | 22.3 | 8.244328 | 1198 | 1.755672 | 9.999933 | 40 | |
| | 30 | 8.245459 | 1195 | 22.4 | 8.245526 | 1195 | 1.754474 | 9.999933 | 30 | |
| | 40 | 8.246654 | 1191 | 22.5 | 8.246721 | 1192 | 1.753279 | 9.999932 | 20 | |
| | 50 | 8.247845 | 1188 | 22.7 | 8.247913 | 1189 | 1.752087 | 9.999932 | 10 | |
| 1 | 0 | 8.249033 | 1185 | 22.8 | 8.249102 | 1185 | 1.750898 | 9.999932 | 0 | 59 |
| | 10 | 8.250218 | 1182 | 22.9 | 8.250287 | 1182 | 1.749713 | 9.999931 | 50 | |
| | 20 | 8.251400 | 1178 | 23.0 | 8.251469 | 1179 | 1.748531 | 9.999931 | 40 | |
| | 30 | 8.252578 | 1175 | 23.2 | 8.252648 | 1175 | 1.747352 | 9.999931 | 30 | |
| | 40 | 8.253753 | 1172 | 23.3 | 8.253823 | 1173 | 1.746177 | 9.999930 | 20 | |
| | 50 | 8.254925 | 1169 | 23.4 | 8.254996 | 1169 | 1.745004 | 9.999930 | 10 | |
| 2 | 0 | 8.256094 | 1166 | 23.5 | 8.256165 | 1166 | 1.743835 | 9.999929 | 0 | 58 |
| | 10 | 8.257260 | 1163 | 23.7 | 8.257331 | 1163 | 1.742669 | 9.999929 | 50 | |
| | 20 | 8.258423 | 1159 | 23.8 | 8.258494 | 1160 | 1.741506 | 9.999929 | 40 | |
| | 30 | 8.259582 | 1157 | 23.9 | 8.259654 | 1157 | 1.740346 | 9.999928 | 30 | |
| | 40 | 8.260739 | 1153 | 24.1 | 8.260811 | 1154 | 1.739189 | 9.999928 | 20 | |
| | 50 | 8.261892 | 1150 | 24.2 | 8.261965 | 1150 | 1.738035 | 9.999927 | 10 | |
| 3 | 0 | 8.263042 | 1148 | 24.3 | 8.263115 | 1148 | 1.736885 | 9.999927 | 0 | 57 |
| | 10 | 8.264190 | 1144 | 24.4 | 8.264263 | 1145 | 1.735737 | 9.999927 | 50 | |
| | 20 | 8.265334 | 1141 | 24.6 | 8.265408 | 1141 | 1.734592 | 9.999926 | 40 | |
| | 30 | 8.266475 | 1138 | 24.7 | 8.266549 | 1139 | 1.733451 | 9.999926 | 30 | |
| | 40 | 8.267613 | 1136 | 24.8 | 8.267688 | 1136 | 1.732312 | 9.999926 | 20 | |
| | 50 | 8.268749 | 1132 | 25.0 | 8.268824 | 1132 | 1.731176 | 9.999925 | 10 | |
| 4 | 0 | 8.269881 | 1129 | 25.1 | 8.269956 | 1130 | 1.730044 | 9.999925 | 0 | 56 |
| | 10 | 8.271010 | 1127 | 25.2 | 8.271086 | 1127 | 1.728911 | 9.999924 | 50 | |
| | 20 | 8.272137 | 1123 | 25.3 | 8.272213 | 1124 | 1.727787 | 9.999924 | 40 | |
| | 30 | 8.273260 | 1121 | 25.5 | 8.273337 | 1121 | 1.726663 | 9.999924 | 30 | |
| | 40 | 8.274381 | 1118 | 25.6 | 8.274458 | 1118 | 1.725542 | 9.999923 | 20 | |
| | 50 | 8.275499 | 1115 | 25.7 | 8.275576 | 1115 | 1.724424 | 9.999923 | 10 | |
| 5 | 0 | 8.276614 | 1112 | 25.9 | 8.276691 | 1113 | 1.723309 | 9.999922 | 0 | 55 |
| | 10 | 8.277726 | 1109 | 26.0 | 8.277804 | 1109 | 1.722196 | 9.999922 | 50 | |
| | 20 | 8.278835 | 1106 | 26.1 | 8.278913 | 1107 | 1.721087 | 9.999922 | 40 | |
| | 30 | 8.279941 | 1104 | 26.3 | 8.280020 | 1104 | 1.719980 | 9.999921 | 30 | |
| | 40 | 8.281045 | 1100 | 26.4 | 8.281124 | 1101 | 1.718876 | 9.999921 | 20 | |
| | 50 | 8.282145 | 1098 | 26.5 | 8.282225 | 1098 | 1.717777 | 9.999920 | 10 | |
| 6 | 0 | 8.283243 | 1096 | 26.7 | 8.283323 | 1096 | 1.716677 | 9.999920 | 0 | 54 |
| | 10 | 8.284339 | 1092 | 26.8 | 8.284419 | 1093 | 1.715581 | 9.999920 | 50 | |
| | 20 | 8.285431 | 1090 | 26.9 | 8.285512 | 1090 | 1.714482 | 9.999919 | 40 | |
| | 30 | 8.286521 | 1087 | 27.1 | 8.286602 | 1087 | 1.713398 | 9.999919 | 30 | |
| | 40 | 8.287608 | 1084 | 27.2 | 8.287689 | 1085 | 1.712311 | 9.999918 | 20 | |
| | 50 | 8.288692 | 1081 | 27.4 | 8.288774 | 1082 | 1.711226 | 9.999918 | 10 | |
| 7 | 0 | 8.289773 | 1079 | 27.5 | 8.289856 | 1079 | 1.710144 | 9.999918 | 0 | 53 |
| | 10 | 8.290852 | 1076 | 27.6 | 8.290935 | 1077 | 1.709065 | 9.999917 | 50 | |
| | 20 | 8.291928 | 1074 | 27.8 | 8.292012 | 1074 | 1.707988 | 9.999917 | 40 | |
| | 30 | 8.293002 | 1071 | 27.9 | 8.293086 | 1071 | 1.706914 | 9.999916 | 30 | |
| | 40 | 8.294073 | 1068 | 28.0 | 8.294157 | 1069 | 1.705843 | 9.999916 | 20 | |
| | 50 | 8.295141 | 1066 | 28.2 | 8.295226 | 1066 | 1.704774 | 9.999915 | 10 | |
| 8 | 0 | 8.296207 | 1063 | 28.3 | 8.296292 | 1063 | 1.703708 | 9.999915 | 0 | 52 |
| | 10 | 8.297270 | 1060 | 28.5 | 8.297355 | 1061 | 1.702645 | 9.999915 | 50 | |
| | 20 | 8.298330 | 1058 | 28.6 | 8.298416 | 1058 | 1.701584 | 9.999914 | 40 | |
| | 30 | 8.299388 | 1055 | 28.7 | 8.299474 | 1056 | 1.700526 | 9.999914 | 30 | |
| | 40 | 8.300443 | 1053 | 28.9 | 8.300530 | 1053 | 1.699470 | 9.999913 | 20 | |
| | 50 | 8.301496 | 1050 | 29.0 | 8.301583 | 1051 | 1.698417 | 9.999913 | 10 | |
| 9 | 0 | 8.302546 | 1048 | 29.2 | 8.302634 | 1048 | 1.697366 | 9.999913 | 0 | 51 |
| | 10 | 8.303594 | 1045 | 29.3 | 8.303682 | 1045 | 1.696318 | 9.999912 | 50 | |
| | 20 | 8.304639 | 1042 | 29.4 | 8.304727 | 1043 | 1.695273 | 9.999912 | 40 | |
| | 30 | 8.305681 | 1040 | 29.6 | 8.305770 | 1041 | 1.694230 | 9.999911 | 30 | |
| | 40 | 8.306721 | 1038 | 29.7 | 8.306811 | 1038 | 1.693189 | 9.999911 | 20 | |
| | 50 | 8.307759 | 1035 | 29.9 | 8.307849 | 1035 | 1.692151 | 9.999910 | 10 | |
| 10 | 0 | 8.308794 | | 30.0 | 8.308884 | | 1.691116 | 9.999910 | 0 | 50 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|------|------|----------|-------|----------|----------|---|----|
| 10 | o | 8.308794 | 1033 | 30.0 | 8.308884 | 1033 | 1.691116 | 9.999910 | o | 50 |
| | 10 | 8.309827 | 1030 | 30.2 | 8.309917 | 1031 | 1.690083 | 9.999910 | | 50 |
| | 20 | 8.310857 | 1028 | 30.3 | 8.310948 | 1028 | 1.689052 | 9.999909 | | 40 |
| | 30 | 8.311885 | 1025 | 30.4 | 8.311976 | 1026 | 1.688024 | 9.999909 | | 30 |
| | 40 | 8.312910 | 1023 | 30.6 | 8.313002 | 1023 | 1.686998 | 9.999908 | | 20 |
| | 50 | 8.313933 | 1021 | 30.7 | 8.314025 | 1021 | 1.685975 | 9.999908 | | 10 |
| 11 | o | 8.314954 | 1018 | 30.9 | 8.315046 | 1019 | 1.684954 | 9.999907 | o | 49 |
| | 10 | 8.315972 | 1015 | 31.0 | 8.316065 | 1016 | 1.683935 | 9.999907 | | 50 |
| | 20 | 8.316987 | 1014 | 31.2 | 8.317081 | 1014 | 1.682919 | 9.999906 | | 40 |
| | 30 | 8.318001 | 1011 | 31.3 | 8.318095 | 1011 | 1.681905 | 9.999906 | | 30 |
| | 40 | 8.319012 | 1009 | 31.5 | 8.319106 | 1009 | 1.680894 | 9.999906 | | 20 |
| | 50 | 8.320021 | 1006 | 31.6 | 8.320115 | 1007 | 1.679885 | 9.999905 | | 10 |
| 12 | o | 8.321027 | 1004 | 31.8 | 8.321122 | 1005 | 1.678878 | 9.999905 | o | 48 |
| | 10 | 8.322031 | 1002 | 31.9 | 8.322127 | 1002 | 1.677873 | 9.999904 | | 50 |
| | 20 | 8.323033 | 999 | 32.0 | 8.323129 | 1000 | 1.676871 | 9.999904 | | 40 |
| | 30 | 8.324032 | 997 | 32.2 | 8.324129 | 997 | 1.675871 | 9.999903 | | 30 |
| | 40 | 8.325029 | 995 | 32.3 | 8.325126 | 995 | 1.674874 | 9.999903 | | 20 |
| | 50 | 8.326024 | 992 | 32.5 | 8.326121 | 993 | 1.673879 | 9.999903 | | 10 |
| 13 | o | 8.327016 | 991 | 32.6 | 8.327114 | 991 | 1.672886 | 9.999902 | o | 47 |
| | 10 | 8.328007 | 988 | 32.8 | 8.328105 | 988 | 1.671895 | 9.999902 | | 50 |
| | 20 | 8.328995 | 985 | 32.9 | 8.329093 | 987 | 1.670907 | 9.999901 | | 40 |
| | 30 | 8.329980 | 984 | 33.1 | 8.330080 | 984 | 1.669920 | 9.999901 | | 30 |
| | 40 | 8.330964 | 981 | 33.2 | 8.331064 | 981 | 1.668936 | 9.999900 | | 20 |
| | 50 | 8.331945 | 979 | 33.4 | 8.332045 | 980 | 1.667955 | 9.999900 | | 10 |
| 14 | o | 8.332924 | 977 | 33.5 | 8.333025 | 977 | 1.666975 | 9.999899 | o | 46 |
| | 10 | 8.333901 | 975 | 33.7 | 8.334002 | 975 | 1.665998 | 9.999899 | | 50 |
| | 20 | 8.334876 | 972 | 33.8 | 8.334977 | 973 | 1.665023 | 9.999898 | | 40 |
| | 30 | 8.335848 | 971 | 34.0 | 8.335950 | 971 | 1.664050 | 9.999898 | | 30 |
| | 40 | 8.336819 | 968 | 34.1 | 8.336921 | 969 | 1.663079 | 9.999898 | | 20 |
| | 50 | 8.337787 | 966 | 34.3 | 8.337890 | 966 | 1.662110 | 9.999897 | | 10 |
| 15 | o | 8.338753 | 964 | 34.5 | 8.338856 | 965 | 1.661144 | 9.999897 | o | 45 |
| | 10 | 8.339717 | 962 | 34.6 | 8.339821 | 962 | 1.660179 | 9.999896 | | 50 |
| | 20 | 8.340679 | 959 | 34.8 | 8.340783 | 960 | 1.659217 | 9.999896 | | 40 |
| | 30 | 8.341638 | 958 | 34.9 | 8.341743 | 958 | 1.658257 | 9.999895 | | 30 |
| | 40 | 8.342596 | 955 | 35.1 | 8.342701 | 956 | 1.657299 | 9.999895 | | 20 |
| | 50 | 8.343551 | 953 | 35.2 | 8.343657 | 953 | 1.656343 | 9.999894 | | 10 |
| 16 | o | 8.344504 | 952 | 35.4 | 8.344610 | 952 | 1.655390 | 9.999894 | o | 44 |
| | 10 | 8.345456 | 949 | 35.5 | 8.345562 | 950 | 1.654438 | 9.999893 | | 50 |
| | 20 | 8.346405 | 947 | 35.7 | 8.346512 | 947 | 1.653488 | 9.999893 | | 40 |
| | 30 | 8.347352 | 945 | 35.8 | 8.347459 | 946 | 1.652541 | 9.999892 | | 30 |
| | 40 | 8.348297 | 943 | 36.0 | 8.348405 | 943 | 1.651595 | 9.999892 | | 20 |
| | 50 | 8.349240 | 941 | 36.2 | 8.349348 | 941 | 1.650652 | 9.999892 | | 10 |
| 17 | o | 8.350181 | 938 | 36.3 | 8.350289 | 940 | 1.649711 | 9.999891 | o | 43 |
| | 10 | 8.351119 | 937 | 36.5 | 8.351229 | 937 | 1.648781 | 9.999891 | | 50 |
| | 20 | 8.352056 | 935 | 36.6 | 8.352166 | 935 | 1.647834 | 9.999890 | | 40 |
| | 30 | 8.352991 | 933 | 36.8 | 8.353101 | 934 | 1.646899 | 9.999890 | | 30 |
| | 40 | 8.353924 | 931 | 36.9 | 8.354035 | 931 | 1.645965 | 9.999889 | | 20 |
| | 50 | 8.354855 | 928 | 37.1 | 8.355000 | 929 | 1.645031 | 9.999889 | | 10 |
| 18 | o | 8.355783 | 927 | 37.2 | 8.355855 | 928 | 1.644105 | 9.999888 | o | 42 |
| | 10 | 8.356710 | 925 | 37.3 | 8.356855 | 925 | 1.643177 | 9.999888 | | 50 |
| | 20 | 8.357635 | 923 | 37.6 | 8.357748 | 923 | 1.642252 | 9.999887 | | 40 |
| | 30 | 8.358558 | 921 | 37.7 | 8.358671 | 922 | 1.641329 | 9.999887 | | 30 |
| | 40 | 8.359479 | 919 | 37.9 | 8.359593 | 919 | 1.640407 | 9.999886 | | 20 |
| | 50 | 8.360398 | 917 | 38.1 | 8.360512 | 918 | 1.639488 | 9.999885 | | 10 |
| 19 | o | 8.361315 | 915 | 38.2 | 8.361350 | 915 | 1.638571 | 9.999885 | o | 41 |
| | 10 | 8.362230 | 913 | 38.4 | 8.362345 | 914 | 1.637655 | 9.999884 | | 50 |
| | 20 | 8.363143 | 912 | 38.5 | 8.363259 | 912 | 1.636741 | 9.999884 | | 40 |
| | 30 | 8.364055 | 909 | 38.7 | 8.364171 | 910 | 1.635829 | 9.999884 | | 30 |
| | 40 | 8.364964 | 907 | 38.9 | 8.365081 | 907 | 1.634919 | 9.999883 | | 20 |
| | 50 | 8.365871 | 906 | 39.0 | 8.365988 | 907 | 1.634012 | 9.999883 | | 10 |
| 20 | o | 8.366777 | | 39.2 | 8.366895 | | 1.633105 | 9.999882 | o | 40 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|------|----------|-------|----------|----------|----|----|
| 20 | 0 | 8.366777 | 904 | 39.2 | 8.366895 | 904 | 1.633105 | 9.999882 | 0 | 40 |
| | 10 | 8.367681 | 901 | 39.4 | 8.367799 | 902 | 1.632201 | 9.999882 | 50 | |
| | 20 | 8.368582 | 900 | 39.5 | 8.368701 | 900 | 1.631299 | 9.999881 | 40 | |
| | 30 | 8.369482 | 898 | 39.7 | 8.369601 | 899 | 1.630399 | 9.999881 | 30 | |
| | 40 | 8.370380 | 897 | 39.9 | 8.370500 | 897 | 1.629500 | 9.999880 | 20 | |
| | 50 | 8.371277 | 894 | 40.0 | 8.371397 | 895 | 1.628603 | 9.999880 | 10 | |
| 21 | 0 | 8.372171 | 892 | 40.2 | 8.372292 | 893 | 1.627708 | 9.999879 | 0 | 39 |
| | 10 | 8.373063 | 891 | 40.4 | 8.373185 | 891 | 1.626815 | 9.999879 | 50 | |
| | 20 | 8.373954 | 889 | 40.5 | 8.374076 | 889 | 1.625924 | 9.999878 | 40 | |
| | 30 | 8.374843 | 887 | 40.7 | 8.374965 | 888 | 1.625035 | 9.999878 | 30 | |
| | 40 | 8.375730 | 885 | 40.8 | 8.375853 | 885 | 1.624147 | 9.999877 | 20 | |
| | 50 | 8.376615 | 884 | 41.0 | 8.376738 | 884 | 1.623262 | 9.999877 | 10 | |
| 22 | 0 | 8.377499 | 881 | 41.2 | 8.377622 | 882 | 1.622378 | 9.999876 | 0 | 38 |
| | 10 | 8.378380 | 880 | 41.4 | 8.378504 | 881 | 1.621496 | 9.999876 | 50 | |
| | 20 | 8.379260 | 878 | 41.5 | 8.379385 | 878 | 1.620615 | 9.999875 | 40 | |
| | 30 | 8.380138 | 877 | 41.7 | 8.380263 | 877 | 1.619737 | 9.999875 | 30 | |
| | 40 | 8.381015 | 874 | 41.9 | 8.381140 | 875 | 1.618860 | 9.999874 | 20 | |
| | 50 | 8.381889 | 873 | 42.0 | 8.382015 | 874 | 1.617985 | 9.999874 | 10 | |
| 23 | 0 | 8.382762 | 871 | 42.2 | 8.382889 | 871 | 1.617111 | 9.999873 | 0 | 37 |
| | 10 | 8.383633 | 869 | 42.4 | 8.383760 | 870 | 1.616240 | 9.999873 | 50 | |
| | 20 | 8.384502 | 868 | 42.5 | 8.384630 | 868 | 1.615370 | 9.999872 | 40 | |
| | 30 | 8.385370 | 866 | 42.7 | 8.385498 | 866 | 1.614502 | 9.999872 | 30 | |
| | 40 | 8.386236 | 864 | 42.9 | 8.386364 | 865 | 1.613636 | 9.999871 | 20 | |
| | 50 | 8.387100 | 862 | 43.0 | 8.387229 | 863 | 1.612771 | 9.999871 | 10 | |
| 24 | 0 | 8.387962 | 861 | 43.2 | 8.388092 | 861 | 1.611908 | 9.999870 | 0 | 36 |
| | 10 | 8.388823 | 859 | 43.4 | 8.388953 | 860 | 1.611047 | 9.999870 | 50 | |
| | 20 | 8.389682 | 857 | 43.6 | 8.389813 | 857 | 1.610187 | 9.999869 | 40 | |
| | 30 | 8.390539 | 856 | 43.7 | 8.390670 | 856 | 1.609330 | 9.999869 | 30 | |
| | 40 | 8.391395 | 854 | 43.9 | 8.391526 | 855 | 1.608474 | 9.999868 | 20 | |
| | 50 | 8.392249 | 852 | 44.1 | 8.392381 | 853 | 1.607619 | 9.999868 | 10 | |
| 25 | 0 | 8.393101 | 850 | 44.3 | 8.393234 | 851 | 1.606766 | 9.999867 | 0 | 35 |
| | 10 | 8.393951 | 849 | 44.4 | 8.394085 | 849 | 1.605915 | 9.999867 | 50 | |
| | 20 | 8.394800 | 847 | 44.6 | 8.394934 | 848 | 1.605066 | 9.999866 | 40 | |
| | 30 | 8.395647 | 846 | 44.8 | 8.395782 | 846 | 1.604218 | 9.999866 | 30 | |
| | 40 | 8.396493 | 844 | 44.9 | 8.396628 | 844 | 1.603372 | 9.999865 | 20 | |
| | 50 | 8.397337 | 842 | 45.1 | 8.397472 | 843 | 1.602528 | 9.999865 | 10 | |
| 26 | 0 | 8.398179 | 841 | 45.3 | 8.398315 | 841 | 1.601685 | 9.999864 | 0 | 34 |
| | 10 | 8.399020 | 839 | 45.5 | 8.399156 | 840 | 1.600844 | 9.999864 | 50 | |
| | 20 | 8.399859 | 837 | 45.7 | 8.399996 | 838 | 1.600004 | 9.999863 | 40 | |
| | 30 | 8.400696 | 836 | 45.8 | 8.400834 | 836 | 1.599166 | 9.999863 | 30 | |
| | 40 | 8.401532 | 834 | 46.0 | 8.401670 | 835 | 1.598330 | 9.999862 | 20 | |
| | 50 | 8.402366 | 833 | 46.2 | 8.402505 | 833 | 1.597495 | 9.999861 | 10 | |
| 27 | 0 | 8.403199 | 831 | 46.4 | 8.403338 | 832 | 1.596662 | 9.999861 | 0 | 33 |
| | 10 | 8.404030 | 829 | 46.5 | 8.404170 | 830 | 1.595830 | 9.999860 | 50 | |
| | 20 | 8.404859 | 828 | 46.7 | 8.405000 | 828 | 1.595000 | 9.999860 | 40 | |
| | 30 | 8.405687 | 827 | 46.9 | 8.405828 | 827 | 1.594172 | 9.999859 | 30 | |
| | 40 | 8.406514 | 824 | 47.1 | 8.406655 | 825 | 1.593345 | 9.999859 | 20 | |
| | 50 | 8.407338 | 823 | 47.3 | 8.407480 | 824 | 1.592520 | 9.999858 | 10 | |
| 28 | 0 | 8.408161 | 822 | 47.5 | 8.408302 | 822 | 1.591695 | 9.999858 | 0 | 32 |
| | 10 | 8.408983 | 820 | 47.7 | 8.409122 | 820 | 1.590874 | 9.999857 | 50 | |
| | 20 | 8.409803 | 818 | 47.9 | 8.410260 | 819 | 1.590054 | 9.999857 | 40 | |
| | 30 | 8.410621 | 817 | 48.0 | 8.410765 | 818 | 1.589235 | 9.999856 | 30 | |
| | 40 | 8.411438 | 816 | 48.2 | 8.411583 | 816 | 1.588417 | 9.999856 | 20 | |
| | 50 | 8.412254 | 814 | 48.3 | 8.412399 | 814 | 1.587601 | 9.999855 | 10 | |
| 29 | 0 | 8.413068 | 812 | 48.5 | 8.413213 | 813 | 1.586787 | 9.999854 | 0 | 31 |
| | 10 | 8.413880 | 811 | 48.7 | 8.414026 | 811 | 1.585974 | 9.999854 | 50 | |
| | 20 | 8.414691 | 809 | 48.9 | 8.414837 | 810 | 1.585163 | 9.999853 | 40 | |
| | 30 | 8.415500 | 808 | 49.1 | 8.415647 | 809 | 1.584353 | 9.999853 | 30 | |
| | 40 | 8.416308 | 806 | 49.3 | 8.416456 | 807 | 1.583544 | 9.999852 | 20 | |
| | 50 | 8.417114 | 805 | 49.5 | 8.417264 | 805 | 1.582737 | 9.999852 | 10 | |
| 30 | 0 | 8.417919 | 805 | 49.5 | 8.418072 | 805 | 1.581932 | 9.999851 | 0 | 30 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|------|----------|-------|----------|----------|----|----|
| 30 | 0 | 8.417919 | 803 | 49.6 | 8.418068 | 804 | 1.581932 | 9.999851 | 0 | 30 |
| | 10 | 8.418722 | 802 | 49.8 | 8.418872 | 802 | 1.581128 | 9.999851 | 50 | |
| | 20 | 8.419524 | 801 | 50.0 | 8.419674 | 801 | 1.580326 | 9.999850 | 40 | |
| | 30 | 8.420325 | 798 | 50.2 | 8.420475 | 799 | 1.579525 | 9.999849 | 30 | |
| | 40 | 8.421123 | 798 | 50.3 | 8.421274 | 798 | 1.578726 | 9.999849 | 20 | |
| | 50 | 8.421921 | 796 | 50.5 | 8.422072 | 797 | 1.577928 | 9.999848 | 10 | |
| 31 | 0 | 8.422717 | 794 | 50.7 | 8.422869 | 795 | 1.577131 | 9.999848 | 0 | 29 |
| | 10 | 8.423511 | 793 | 50.9 | 8.423664 | 794 | 1.576336 | 9.999847 | 50 | |
| | 20 | 8.424304 | 792 | 51.1 | 8.424458 | 792 | 1.575542 | 9.999847 | 40 | |
| | 30 | 8.425096 | 790 | 51.3 | 8.425250 | 791 | 1.574750 | 9.999846 | 30 | |
| | 40 | 8.425886 | 789 | 51.5 | 8.426041 | 789 | 1.573959 | 9.999846 | 20 | |
| | 50 | 8.426675 | 787 | 51.7 | 8.426830 | 788 | 1.573170 | 9.999845 | 10 | |
| 32 | 0 | 8.427462 | 786 | 51.8 | 8.427618 | 786 | 1.572382 | 9.999844 | 0 | 28 |
| | 10 | 8.428248 | 784 | 52.0 | 8.428404 | 785 | 1.571596 | 9.999844 | 50 | |
| | 20 | 8.429032 | 783 | 52.2 | 8.429189 | 784 | 1.570811 | 9.999843 | 40 | |
| | 30 | 8.429815 | 782 | 52.4 | 8.429973 | 782 | 1.570027 | 9.999843 | 30 | |
| | 40 | 8.430597 | 780 | 52.6 | 8.430755 | 781 | 1.569245 | 9.999842 | 20 | |
| | 50 | 8.431377 | 779 | 52.8 | 8.431536 | 779 | 1.568464 | 9.999842 | 10 | |
| 33 | 0 | 8.432156 | 778 | 53.0 | 8.432315 | 778 | 1.567685 | 9.999841 | 0 | 27 |
| | 10 | 8.432934 | 776 | 53.2 | 8.433093 | 777 | 1.566907 | 9.999840 | 50 | |
| | 20 | 8.433710 | 774 | 53.4 | 8.433870 | 775 | 1.566130 | 9.999840 | 40 | |
| | 30 | 8.434484 | 773 | 53.5 | 8.434645 | 774 | 1.565355 | 9.999839 | 30 | |
| | 40 | 8.435257 | 772 | 53.7 | 8.435419 | 772 | 1.564581 | 9.999839 | 20 | |
| | 50 | 8.436029 | 771 | 53.9 | 8.436191 | 771 | 1.563809 | 9.999838 | 10 | |
| 34 | 0 | 8.436800 | 769 | 54.1 | 8.436962 | 770 | 1.563038 | 9.999838 | 0 | 26 |
| | 10 | 8.437569 | 768 | 54.3 | 8.437732 | 768 | 1.562268 | 9.999837 | 50 | |
| | 20 | 8.438337 | 766 | 54.5 | 8.438500 | 767 | 1.561500 | 9.999836 | 40 | |
| | 30 | 8.439103 | 765 | 54.7 | 8.439267 | 766 | 1.560733 | 9.999836 | 30 | |
| | 40 | 8.439868 | 764 | 54.9 | 8.440033 | 764 | 1.559967 | 9.999835 | 20 | |
| | 50 | 8.440632 | 762 | 55.1 | 8.440797 | 763 | 1.559203 | 9.999835 | 10 | |
| 35 | 0 | 8.441394 | 762 | 55.3 | 8.441560 | 762 | 1.558440 | 9.999834 | 0 | 25 |
| | 10 | 8.442156 | 759 | 55.5 | 8.442322 | 760 | 1.557678 | 9.999834 | 50 | |
| | 20 | 8.442915 | 759 | 55.7 | 8.443082 | 759 | 1.556918 | 9.999833 | 40 | |
| | 30 | 8.443674 | 757 | 55.9 | 8.443841 | 758 | 1.556159 | 9.999832 | 30 | |
| | 40 | 8.444431 | 755 | 56.1 | 8.444599 | 756 | 1.555401 | 9.999832 | 20 | |
| | 50 | 8.445186 | 755 | 56.3 | 8.445355 | 755 | 1.554645 | 9.999831 | 10 | |
| 36 | 0 | 8.445941 | 753 | 56.4 | 8.446110 | 754 | 1.553890 | 9.999831 | 0 | 24 |
| | 10 | 8.446694 | 752 | 56.6 | 8.446864 | 752 | 1.553136 | 9.999830 | 50 | |
| | 20 | 8.447446 | 750 | 56.8 | 8.447616 | 752 | 1.552384 | 9.999829 | 40 | |
| | 30 | 8.448196 | 750 | 57.0 | 8.448368 | 749 | 1.551632 | 9.999829 | 30 | |
| | 40 | 8.448946 | 748 | 57.2 | 8.449117 | 749 | 1.550883 | 9.999828 | 20 | |
| | 50 | 8.449694 | 746 | 57.4 | 8.449866 | 747 | 1.550134 | 9.999828 | 10 | |
| 37 | 0 | 8.450440 | 746 | 57.6 | 8.450613 | 746 | 1.549387 | 9.999827 | 0 | 23 |
| | 10 | 8.451186 | 744 | 57.8 | 8.451359 | 745 | 1.548641 | 9.999827 | 50 | |
| | 20 | 8.451930 | 743 | 58.0 | 8.452104 | 743 | 1.547896 | 9.999826 | 40 | |
| | 30 | 8.452673 | 741 | 58.2 | 8.452847 | 742 | 1.547153 | 9.999825 | 30 | |
| | 40 | 8.453414 | 740 | 58.4 | 8.453589 | 741 | 1.546411 | 9.999825 | 20 | |
| | 50 | 8.454154 | 739 | 58.6 | 8.454330 | 740 | 1.545670 | 9.999824 | 10 | |
| 38 | 0 | 8.454893 | 738 | 58.8 | 8.455070 | 738 | 1.544930 | 9.999824 | 0 | 22 |
| | 10 | 8.455631 | 737 | 59.0 | 8.455808 | 737 | 1.544192 | 9.999823 | 50 | |
| | 20 | 8.456368 | 735 | 59.2 | 8.456545 | 736 | 1.543455 | 9.999822 | 40 | |
| | 30 | 8.457103 | 734 | 59.4 | 8.457281 | 735 | 1.542719 | 9.999822 | 30 | |
| | 40 | 8.457837 | 733 | 59.6 | 8.458016 | 733 | 1.541984 | 9.999821 | 20 | |
| | 50 | 8.458570 | 731 | 59.8 | 8.458749 | 732 | 1.541251 | 9.999820 | 10 | |
| 39 | 0 | 8.459301 | 731 | 60.0 | 8.459481 | 731 | 1.540519 | 9.999820 | 0 | 21 |
| | 10 | 8.460032 | 729 | 60.2 | 8.460212 | 730 | 1.539788 | 9.999819 | 50 | |
| | 20 | 8.460761 | 728 | 60.4 | 8.460942 | 728 | 1.539058 | 9.999819 | 40 | |
| | 30 | 8.461489 | 726 | 60.6 | 8.461670 | 728 | 1.538330 | 9.999818 | 30 | |
| | 40 | 8.462215 | 726 | 60.8 | 8.462398 | 726 | 1.537602 | 9.999817 | 20 | |
| | 50 | 8.462941 | 724 | 61.0 | 8.463124 | 725 | 1.536876 | 9.999817 | 10 | |
| 40 | 0 | 8.463665 | 724 | 61.2 | 8.463849 | 725 | 1.536151 | 9.999816 | 0 | 20 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|------|----------|-------|----------|----------|----|----|
| 40 | o | 8.463665 | 723 | 61.2 | 8.463849 | 723 | 1.536151 | 9.999816 | o | 20 |
| | 10 | 8.464388 | 722 | 61.5 | 8.464572 | 723 | 1.535428 | 9.999816 | 50 | |
| | 20 | 8.465110 | 720 | 61.7 | 8.465295 | 723 | 1.534705 | 9.999815 | 40 | |
| | 30 | 8.465830 | 720 | 61.9 | 8.466016 | 721 | 1.533984 | 9.999814 | 30 | |
| | 40 | 8.466550 | 718 | 62.1 | 8.466736 | 720 | 1.533264 | 9.999814 | 20 | |
| | 50 | 8.467268 | 717 | 62.3 | 8.467455 | 719 | 1.532545 | 9.999813 | 10 | |
| 41 | o | 8.467985 | 716 | 62.5 | 8.468172 | 717 | 1.531828 | 9.999813 | o | 19 |
| | 10 | 8.468701 | 715 | 62.7 | 8.468889 | 717 | 1.531111 | 9.999812 | 50 | |
| | 20 | 8.469416 | 713 | 62.9 | 8.469604 | 715 | 1.530396 | 9.999811 | 40 | |
| | 30 | 8.470129 | 712 | 63.1 | 8.470318 | 714 | 1.529682 | 9.999811 | 30 | |
| | 40 | 8.470841 | 712 | 63.3 | 8.471031 | 713 | 1.528969 | 9.999810 | 20 | |
| | 50 | 8.471553 | 710 | 63.5 | 8.471743 | 712 | 1.528257 | 9.999809 | 10 | |
| 42 | o | 8.472263 | 708 | 63.7 | 8.472454 | 709 | 1.527546 | 9.999809 | o | 18 |
| | 10 | 8.472971 | 708 | 63.9 | 8.473163 | 709 | 1.526837 | 9.999808 | 50 | |
| | 20 | 8.473679 | 707 | 64.1 | 8.473872 | 709 | 1.526128 | 9.999808 | 40 | |
| | 30 | 8.474386 | 705 | 64.3 | 8.474579 | 707 | 1.525421 | 9.999807 | 30 | |
| | 40 | 8.475091 | 704 | 64.6 | 8.475285 | 706 | 1.524715 | 9.999806 | 20 | |
| | 50 | 8.475795 | 703 | 64.8 | 8.475990 | 705 | 1.524010 | 9.999806 | 10 | |
| 43 | o | 8.476508 | 702 | 65.0 | 8.476693 | 703 | 1.523307 | 9.999805 | o | 17 |
| | 10 | 8.477200 | 701 | 65.2 | 8.477396 | 701 | 1.522604 | 9.999804 | 50 | |
| | 20 | 8.477901 | 700 | 65.4 | 8.478097 | 701 | 1.521903 | 9.999804 | 40 | |
| | 30 | 8.478601 | 698 | 65.6 | 8.478798 | 701 | 1.521202 | 9.999803 | 30 | |
| | 40 | 8.479299 | 698 | 65.8 | 8.479497 | 699 | 1.520503 | 9.999803 | 20 | |
| | 50 | 8.479996 | 696 | 66.0 | 8.480195 | 697 | 1.519803 | 9.999802 | 10 | |
| 44 | o | 8.480693 | 695 | 66.2 | 8.480892 | 696 | 1.519103 | 9.999801 | o | 16 |
| | 10 | 8.481388 | 695 | 66.5 | 8.481588 | 695 | 1.518402 | 9.999800 | 50 | |
| | 20 | 8.482083 | 693 | 66.7 | 8.482283 | 695 | 1.517702 | 9.999800 | 40 | |
| | 30 | 8.482776 | 691 | 66.9 | 8.482976 | 693 | 1.517004 | 9.999799 | 30 | |
| | 40 | 8.483467 | 691 | 67.1 | 8.483669 | 693 | 1.516301 | 9.999799 | 20 | |
| | 50 | 8.484158 | 690 | 67.3 | 8.484360 | 691 | 1.515604 | 9.999798 | 10 | |
| 45 | o | 8.484848 | 688 | 67.5 | 8.485050 | 690 | 1.514950 | 9.999797 | o | 15 |
| | 10 | 8.485536 | 688 | 67.7 | 8.485740 | 688 | 1.514260 | 9.999797 | 50 | |
| | 20 | 8.486224 | 686 | 68.0 | 8.486428 | 687 | 1.513572 | 9.999796 | 40 | |
| | 30 | 8.486910 | 686 | 68.2 | 8.487115 | 686 | 1.512885 | 9.999795 | 30 | |
| | 40 | 8.487596 | 684 | 68.4 | 8.487801 | 685 | 1.512199 | 9.999795 | 20 | |
| | 50 | 8.488280 | 683 | 68.6 | 8.488486 | 684 | 1.511514 | 9.999794 | 10 | |
| 46 | o | 8.488963 | 682 | 68.8 | 8.489170 | 682 | 1.510830 | 9.999794 | o | 14 |
| | 10 | 8.489645 | 681 | 69.0 | 8.489852 | 682 | 1.510148 | 9.999793 | 50 | |
| | 20 | 8.490326 | 680 | 69.3 | 8.490534 | 681 | 1.509466 | 9.999792 | 40 | |
| | 30 | 8.491006 | 679 | 69.5 | 8.491215 | 679 | 1.508785 | 9.999792 | 30 | |
| | 40 | 8.491685 | 678 | 69.7 | 8.491894 | 679 | 1.508106 | 9.999791 | 20 | |
| | 50 | 8.492363 | 677 | 69.9 | 8.492573 | 677 | 1.507427 | 9.999790 | 10 | |
| 47 | o | 8.493040 | 675 | 70.1 | 8.493250 | 677 | 1.506750 | 9.999790 | o | 13 |
| | 10 | 8.493715 | 675 | 70.3 | 8.493927 | 675 | 1.506073 | 9.999789 | 50 | |
| | 20 | 8.494390 | 674 | 70.6 | 8.494602 | 674 | 1.505398 | 9.999788 | 40 | |
| | 30 | 8.495061 | 672 | 70.8 | 8.495276 | 673 | 1.504724 | 9.999788 | 30 | |
| | 40 | 8.495736 | 672 | 71.0 | 8.495949 | 673 | 1.504051 | 9.999787 | 20 | |
| | 50 | 8.496408 | 670 | 71.2 | 8.496622 | 671 | 1.503379 | 9.999786 | 10 | |
| 48 | o | 8.497078 | 670 | 71.4 | 8.497293 | 670 | 1.502707 | 9.999785 | o | 12 |
| | 10 | 8.497748 | 668 | 71.7 | 8.497963 | 669 | 1.502037 | 9.999785 | 50 | |
| | 20 | 8.498416 | 668 | 71.9 | 8.498632 | 668 | 1.501368 | 9.999784 | 40 | |
| | 30 | 8.499084 | 666 | 72.1 | 8.499300 | 667 | 1.500700 | 9.999784 | 30 | |
| | 40 | 8.499750 | 666 | 72.3 | 8.499967 | 666 | 1.500033 | 9.999783 | 20 | |
| | 50 | 8.500416 | 664 | 72.5 | 8.500633 | 665 | 1.499367 | 9.999782 | 10 | |
| 49 | o | 8.501080 | 663 | 72.8 | 8.501298 | 664 | 1.498702 | 9.999782 | o | 11 |
| | 10 | 8.501743 | 662 | 73.0 | 8.501962 | 663 | 1.498038 | 9.999781 | 50 | |
| | 20 | 8.502405 | 662 | 73.2 | 8.502625 | 662 | 1.497375 | 9.999780 | 40 | |
| | 30 | 8.503067 | 660 | 73.4 | 8.503287 | 661 | 1.496713 | 9.999780 | 30 | |
| | 40 | 8.503727 | 659 | 73.7 | 8.503948 | 660 | 1.496052 | 9.999779 | 20 | |
| | 50 | 8.504386 | 659 | 73.9 | 8.504608 | 659 | 1.495392 | 9.999778 | 10 | |
| 50 | o | 8.505045 | 659 | 74.1 | 8.505267 | 659 | 1.494733 | 9.999778 | o | 10 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|------|----------|-------|----------|----------|----|----|
| 50 | 0 | 8.505045 | 657 | 74.1 | 8.505267 | 658 | 1.494733 | 9.999778 | 0 | 10 |
| | 10 | 8.505702 | 656 | 74.3 | 8.505925 | 657 | 1.494075 | 9.999777 | 50 | |
| | 20 | 8.506358 | 656 | 74.6 | 8.506582 | 656 | 1.493418 | 9.999776 | 40 | |
| | 30 | 8.507014 | 654 | 74.8 | 8.507238 | 655 | 1.492762 | 9.999776 | 30 | |
| | 40 | 8.507668 | 653 | 75.0 | 8.507893 | 654 | 1.492107 | 9.999775 | 20 | |
| | 50 | 8.508321 | 653 | 75.2 | 8.508547 | 653 | 1.491453 | 9.999774 | 10 | |
| 51 | 0 | 8.508974 | 651 | 75.5 | 8.509200 | 652 | 1.490800 | 9.999774 | 0 | 9 |
| | 10 | 8.509625 | 650 | 75.7 | 8.509852 | 651 | 1.490148 | 9.999773 | 50 | |
| | 20 | 8.510275 | 650 | 75.9 | 8.510503 | 650 | 1.489497 | 9.999772 | 40 | |
| | 30 | 8.510925 | 648 | 76.1 | 8.511153 | 649 | 1.488847 | 9.999772 | 30 | |
| | 40 | 8.511573 | 648 | 76.4 | 8.511802 | 649 | 1.488198 | 9.999771 | 20 | |
| | 50 | 8.512221 | 646 | 76.6 | 8.512451 | 647 | 1.487549 | 9.999770 | 10 | |
| 52 | 0 | 8.512867 | 646 | 76.8 | 8.513098 | 646 | 1.486902 | 9.999769 | 0 | 8 |
| | 10 | 8.513513 | 644 | 77.1 | 8.513744 | 645 | 1.486256 | 9.999769 | 50 | |
| | 20 | 8.514157 | 644 | 77.3 | 8.514389 | 645 | 1.485611 | 9.999768 | 40 | |
| | 30 | 8.514801 | 643 | 77.5 | 8.515034 | 643 | 1.484966 | 9.999767 | 30 | |
| | 40 | 8.515444 | 642 | 77.7 | 8.515677 | 643 | 1.484323 | 9.999767 | 20 | |
| | 50 | 8.516086 | 640 | 78.0 | 8.516320 | 641 | 1.483680 | 9.999766 | 10 | |
| 53 | 0 | 8.516726 | 640 | 78.2 | 8.516961 | 641 | 1.483039 | 9.999765 | 0 | 7 |
| | 10 | 8.517366 | 639 | 78.4 | 8.517602 | 639 | 1.482398 | 9.999765 | 50 | |
| | 20 | 8.518005 | 638 | 78.7 | 8.518241 | 639 | 1.481759 | 9.999764 | 40 | |
| | 30 | 8.518643 | 637 | 78.9 | 8.518880 | 638 | 1.481120 | 9.999763 | 30 | |
| | 40 | 8.519280 | 636 | 79.1 | 8.519518 | 636 | 1.480482 | 9.999763 | 20 | |
| | 50 | 8.519916 | 635 | 79.4 | 8.520154 | 636 | 1.479846 | 9.999762 | 10 | |
| 54 | 0 | 8.520551 | 635 | 79.6 | 8.520790 | 635 | 1.479210 | 9.999761 | 0 | 6 |
| | 10 | 8.521186 | 633 | 79.8 | 8.521425 | 634 | 1.478575 | 9.999760 | 50 | |
| | 20 | 8.521819 | 632 | 80.1 | 8.522059 | 633 | 1.477941 | 9.999760 | 40 | |
| | 30 | 8.522451 | 632 | 80.3 | 8.522692 | 633 | 1.477308 | 9.999759 | 30 | |
| | 40 | 8.523083 | 630 | 80.5 | 8.523324 | 632 | 1.476676 | 9.999758 | 20 | |
| | 50 | 8.523713 | 630 | 80.8 | 8.523956 | 630 | 1.476044 | 9.999758 | 10 | |
| 55 | 0 | 8.524343 | 629 | 81.0 | 8.524586 | 629 | 1.475414 | 9.999757 | 0 | 5 |
| | 10 | 8.524972 | 627 | 81.2 | 8.525215 | 629 | 1.474785 | 9.999756 | 50 | |
| | 20 | 8.525599 | 627 | 81.5 | 8.525844 | 628 | 1.474156 | 9.999756 | 40 | |
| | 30 | 8.526226 | 626 | 81.7 | 8.526472 | 626 | 1.473528 | 9.999755 | 30 | |
| | 40 | 8.526852 | 625 | 81.9 | 8.527098 | 626 | 1.472902 | 9.999754 | 20 | |
| | 50 | 8.527477 | 625 | 82.2 | 8.527724 | 625 | 1.472276 | 9.999753 | 10 | |
| 56 | 0 | 8.528102 | 623 | 82.4 | 8.528349 | 624 | 1.471651 | 9.999753 | 0 | 4 |
| | 10 | 8.528725 | 622 | 82.7 | 8.528973 | 623 | 1.471027 | 9.999752 | 50 | |
| | 20 | 8.529347 | 622 | 82.9 | 8.529596 | 622 | 1.470404 | 9.999751 | 40 | |
| | 30 | 8.529969 | 621 | 83.1 | 8.530218 | 622 | 1.469782 | 9.999751 | 30 | |
| | 40 | 8.530590 | 619 | 83.4 | 8.530840 | 620 | 1.469160 | 9.999750 | 20 | |
| | 50 | 8.531211 | 619 | 83.6 | 8.531461 | 620 | 1.468538 | 9.999749 | 10 | |
| 57 | 0 | 8.531828 | 618 | 83.8 | 8.532082 | 618 | 1.467916 | 9.999748 | 0 | 3 |
| | 10 | 8.532446 | 617 | 84.1 | 8.532703 | 618 | 1.467292 | 9.999748 | 50 | |
| | 20 | 8.533063 | 616 | 84.3 | 8.533316 | 617 | 1.466668 | 9.999747 | 40 | |
| | 30 | 8.533679 | 616 | 84.6 | 8.533933 | 616 | 1.466047 | 9.999746 | 30 | |
| | 40 | 8.534295 | 614 | 84.8 | 8.534549 | 615 | 1.465421 | 9.999746 | 20 | |
| | 50 | 8.534909 | 614 | 85.0 | 8.535164 | 615 | 1.464796 | 9.999745 | 10 | |
| 58 | 0 | 8.535523 | 613 | 85.3 | 8.535779 | 613 | 1.464171 | 9.999744 | 0 | 2 |
| | 10 | 8.536136 | 611 | 85.5 | 8.536392 | 613 | 1.463548 | 9.999743 | 50 | |
| | 20 | 8.536747 | 611 | 85.8 | 8.537005 | 612 | 1.462925 | 9.999743 | 40 | |
| | 30 | 8.537358 | 611 | 86.0 | 8.537617 | 610 | 1.462303 | 9.999742 | 30 | |
| | 40 | 8.537969 | 609 | 86.3 | 8.538227 | 610 | 1.461681 | 9.999742 | 20 | |
| | 50 | 8.538578 | 608 | 86.5 | 8.538837 | 610 | 1.461063 | 9.999740 | 10 | |
| 59 | 0 | 8.539186 | 608 | 86.7 | 8.539447 | 608 | 1.460445 | 9.999740 | 0 | 1 |
| | 10 | 8.539794 | 607 | 87.0 | 8.540055 | 607 | 1.459825 | 9.999739 | 50 | |
| | 20 | 8.540401 | 606 | 87.2 | 8.540662 | 607 | 1.459203 | 9.999738 | 40 | |
| | 30 | 8.541007 | 605 | 87.5 | 8.541269 | 606 | 1.458581 | 9.999737 | 30 | |
| | 40 | 8.541612 | 604 | 87.7 | 8.541875 | 605 | 1.457958 | 9.999737 | 20 | |
| | 50 | 8.542216 | 603 | 88.0 | 8.542480 | 604 | 1.457336 | 9.999736 | 10 | |
| 60 | 0 | 8.542819 | 603 | 88.2 | 8.543084 | 604 | 1.456716 | 9.999735 | 0 | 0 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 0 | 0 | 8.542819 | 603 | 88.2 | 8.543084 | 603 | 1.456916 | 9.999735 | 0 | 60 |
| | 10 | 8.543422 | 601 | 88.4 | 8.543687 | 602 | 1.456313 | 9.999735 | 50 | |
| | 20 | 8.544023 | 601 | 88.7 | 8.544289 | 602 | 1.455711 | 9.999734 | 40 | |
| | 30 | 8.544624 | 600 | 88.9 | 8.544891 | 601 | 1.455109 | 9.999733 | 30 | |
| | 40 | 8.545224 | 599 | 89.2 | 8.545492 | 600 | 1.454508 | 9.999732 | 20 | |
| | 50 | 8.545823 | 599 | 89.4 | 8.546092 | 599 | 1.453908 | 9.999732 | 10 | |
| 1 | 0 | 8.546422 | 597 | 89.7 | 8.546691 | 598 | 1.453309 | 9.999731 | 0 | 59 |
| | 10 | 8.547019 | 597 | 89.9 | 8.547289 | 598 | 1.452711 | 9.999730 | 50 | |
| | 20 | 8.547616 | 596 | 90.2 | 8.547887 | 598 | 1.452113 | 9.999729 | 40 | |
| | 30 | 8.548212 | 595 | 90.4 | 8.548483 | 596 | 1.451517 | 9.999729 | 30 | |
| | 40 | 8.548807 | 595 | 90.7 | 8.549079 | 596 | 1.450921 | 9.999728 | 20 | |
| | 50 | 8.549401 | 594 | 91.0 | 8.549675 | 595 | 1.450326 | 9.999727 | 10 | |
| 2 | 0 | 8.550000 | 592 | 91.2 | 8.550200 | 594 | 1.449732 | 9.999726 | 0 | 58 |
| | 10 | 8.550597 | 592 | 91.5 | 8.550800 | 592 | 1.449138 | 9.999726 | 50 | |
| | 20 | 8.551197 | 591 | 91.7 | 8.551454 | 592 | 1.448546 | 9.999725 | 40 | |
| | 30 | 8.551790 | 591 | 91.9 | 8.552046 | 592 | 1.447954 | 9.999724 | 30 | |
| | 40 | 8.552381 | 589 | 92.2 | 8.552637 | 591 | 1.447363 | 9.999723 | 20 | |
| | 50 | 8.552950 | 589 | 92.4 | 8.553227 | 590 | 1.446773 | 9.999723 | 10 | |
| 3 | 0 | 8.553539 | 587 | 92.7 | 8.553817 | 588 | 1.446183 | 9.999722 | 0 | 57 |
| | 10 | 8.554126 | 587 | 92.9 | 8.554405 | 588 | 1.445595 | 9.999721 | 50 | |
| | 20 | 8.554713 | 587 | 93.2 | 8.554993 | 587 | 1.445007 | 9.999720 | 40 | |
| | 30 | 8.555300 | 585 | 93.4 | 8.555580 | 586 | 1.444420 | 9.999720 | 30 | |
| | 40 | 8.555885 | 585 | 93.7 | 8.556166 | 586 | 1.443834 | 9.999719 | 20 | |
| | 50 | 8.556470 | 584 | 93.9 | 8.556752 | 584 | 1.443248 | 9.999718 | 10 | |
| 4 | 0 | 8.557054 | 583 | 94.2 | 8.557336 | 584 | 1.442665 | 9.999717 | 0 | 56 |
| | 10 | 8.557637 | 582 | 94.4 | 8.557920 | 583 | 1.442082 | 9.999717 | 50 | |
| | 20 | 8.558219 | 582 | 94.7 | 8.558503 | 583 | 1.441497 | 9.999716 | 40 | |
| | 30 | 8.558801 | 580 | 94.9 | 8.559085 | 582 | 1.440915 | 9.999715 | 30 | |
| | 40 | 8.559381 | 580 | 95.2 | 8.559667 | 582 | 1.440333 | 9.999714 | 20 | |
| | 50 | 8.559961 | 579 | 95.4 | 8.560248 | 581 | 1.439752 | 9.999714 | 10 | |
| 5 | 0 | 8.560540 | 579 | 95.7 | 8.560828 | 579 | 1.439172 | 9.999713 | 0 | 55 |
| | 10 | 8.561119 | 577 | 96.0 | 8.561407 | 578 | 1.438593 | 9.999712 | 50 | |
| | 20 | 8.561696 | 577 | 96.2 | 8.561985 | 578 | 1.438015 | 9.999711 | 40 | |
| | 30 | 8.562273 | 576 | 96.5 | 8.562563 | 577 | 1.437437 | 9.999711 | 30 | |
| | 40 | 8.562849 | 576 | 96.7 | 8.563140 | 577 | 1.436860 | 9.999710 | 20 | |
| | 50 | 8.563425 | 574 | 97.0 | 8.563716 | 576 | 1.436284 | 9.999709 | 10 | |
| 6 | 0 | 8.563999 | 574 | 97.2 | 8.564291 | 575 | 1.435709 | 9.999708 | 0 | 54 |
| | 10 | 8.564573 | 573 | 97.5 | 8.564866 | 574 | 1.435134 | 9.999707 | 50 | |
| | 20 | 8.565146 | 573 | 97.8 | 8.565440 | 573 | 1.434560 | 9.999707 | 40 | |
| | 30 | 8.565719 | 571 | 98.0 | 8.566013 | 572 | 1.433987 | 9.999706 | 30 | |
| | 40 | 8.566290 | 571 | 98.3 | 8.566585 | 572 | 1.433415 | 9.999705 | 20 | |
| | 50 | 8.566861 | 570 | 98.5 | 8.567157 | 570 | 1.432843 | 9.999704 | 10 | |
| 7 | 0 | 8.567431 | 569 | 98.8 | 8.567727 | 571 | 1.432273 | 9.999704 | 0 | 53 |
| | 10 | 8.568000 | 569 | 99.0 | 8.568298 | 569 | 1.431702 | 9.999703 | 50 | |
| | 20 | 8.568569 | 568 | 99.3 | 8.568867 | 568 | 1.431133 | 9.999702 | 40 | |
| | 30 | 8.569137 | 567 | 99.6 | 8.569435 | 568 | 1.430565 | 9.999701 | 30 | |
| | 40 | 8.569704 | 566 | 99.8 | 8.570003 | 567 | 1.429997 | 9.999700 | 20 | |
| | 50 | 8.570270 | 566 | 100.1 | 8.570570 | 567 | 1.429430 | 9.999700 | 10 | |
| 8 | 0 | 8.570836 | 565 | 100.4 | 8.571137 | 567 | 1.428863 | 9.999699 | 0 | 52 |
| | 10 | 8.571401 | 564 | 100.6 | 8.571702 | 565 | 1.428298 | 9.999698 | 50 | |
| | 20 | 8.571965 | 563 | 100.9 | 8.572267 | 565 | 1.427733 | 9.999697 | 40 | |
| | 30 | 8.572528 | 563 | 101.1 | 8.572832 | 563 | 1.427168 | 9.999697 | 30 | |
| | 40 | 8.573091 | 562 | 101.4 | 8.573395 | 563 | 1.426605 | 9.999696 | 20 | |
| | 50 | 8.573653 | 561 | 101.7 | 8.573958 | 562 | 1.426042 | 9.999695 | 10 | |
| 9 | 0 | 8.574214 | 560 | 101.9 | 8.574520 | 561 | 1.425480 | 9.999694 | 0 | 51 |
| | 10 | 8.574774 | 560 | 102.2 | 8.575081 | 561 | 1.424919 | 9.999693 | 50 | |
| | 20 | 8.575334 | 559 | 102.5 | 8.575642 | 559 | 1.424358 | 9.999693 | 40 | |
| | 30 | 8.575893 | 558 | 102.7 | 8.576201 | 559 | 1.423799 | 9.999692 | 30 | |
| | 40 | 8.576451 | 558 | 103.0 | 8.576760 | 559 | 1.423240 | 9.999691 | 20 | |
| | 50 | 8.577009 | 557 | 103.2 | 8.577319 | 558 | 1.422681 | 9.999690 | 10 | |
| 10 | 0 | 8.577566 | 557 | 103.5 | 8.577877 | 558 | 1.422123 | 9.999689 | 0 | 50 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 10 | 0 | 8.577566 | 556 | 103.5 | 8.577877 | 557 | 1.422123 | 9.999689 | 0 | 50 |
| | 10 | 8.578122 | 556 | 103.8 | 8.578434 | 556 | 1.421566 | 9.999689 | 50 | |
| | 20 | 8.578678 | 556 | 104.0 | 8.578990 | 556 | 1.421010 | 9.999688 | 40 | |
| | 30 | 8.579232 | 554 | 104.3 | 8.579545 | 555 | 1.420455 | 9.999687 | 30 | |
| | 40 | 8.579786 | 554 | 104.6 | 8.580100 | 555 | 1.419900 | 9.999686 | 20 | |
| | 50 | 8.580340 | 554 | 104.8 | 8.580654 | 554 | 1.419346 | 9.999685 | 10 | |
| 11 | 0 | 8.580892 | 552 | 105.1 | 8.581208 | 554 | 1.418792 | 9.999685 | 0 | 49 |
| | 10 | 8.581444 | 551 | 105.4 | 8.581760 | 552 | 1.418240 | 9.999684 | 50 | |
| | 20 | 8.581995 | 551 | 105.6 | 8.582312 | 552 | 1.417688 | 9.999683 | 40 | |
| | 30 | 8.582546 | 551 | 105.9 | 8.582864 | 552 | 1.417136 | 9.999682 | 30 | |
| | 40 | 8.583096 | 550 | 106.2 | 8.583414 | 550 | 1.416586 | 9.999681 | 20 | |
| | 50 | 8.583645 | 549 | 106.5 | 8.583964 | 550 | 1.416036 | 9.999681 | 10 | |
| 12 | 0 | 8.584193 | 548 | 106.7 | 8.584514 | 548 | 1.415486 | 9.999680 | 0 | 48 |
| | 10 | 8.584741 | 547 | 107.0 | 8.585062 | 548 | 1.414938 | 9.999679 | 50 | |
| | 20 | 8.585288 | 547 | 107.3 | 8.585610 | 547 | 1.414390 | 9.999678 | 40 | |
| | 30 | 8.585834 | 546 | 107.5 | 8.586157 | 547 | 1.413843 | 9.999677 | 30 | |
| | 40 | 8.586380 | 545 | 107.8 | 8.586704 | 545 | 1.413296 | 9.999677 | 20 | |
| | 50 | 8.586925 | 544 | 108.1 | 8.587249 | 546 | 1.412751 | 9.999676 | 10 | |
| 13 | 0 | 8.587469 | 544 | 108.3 | 8.587795 | 544 | 1.412205 | 9.999675 | 0 | 47 |
| | 10 | 8.588013 | 543 | 108.6 | 8.588339 | 544 | 1.411661 | 9.999674 | 50 | |
| | 20 | 8.588556 | 543 | 108.9 | 8.588883 | 544 | 1.411117 | 9.999673 | 40 | |
| | 30 | 8.589098 | 542 | 109.2 | 8.589426 | 543 | 1.410574 | 9.999672 | 30 | |
| | 40 | 8.589640 | 542 | 109.4 | 8.589968 | 542 | 1.410032 | 9.999672 | 20 | |
| | 50 | 8.590181 | 541 | 109.7 | 8.590510 | 541 | 1.409490 | 9.999671 | 10 | |
| 14 | 0 | 8.590721 | 539 | 110.0 | 8.591051 | 540 | 1.408947 | 9.999670 | 0 | 46 |
| | 10 | 8.591260 | 539 | 110.3 | 8.591591 | 540 | 1.408405 | 9.999669 | 50 | |
| | 20 | 8.591799 | 539 | 110.5 | 8.592131 | 540 | 1.407863 | 9.999668 | 40 | |
| | 30 | 8.592338 | 539 | 110.8 | 8.592670 | 539 | 1.407320 | 9.999668 | 30 | |
| | 40 | 8.592875 | 537 | 111.1 | 8.593208 | 538 | 1.406779 | 9.999667 | 20 | |
| | 50 | 8.593412 | 536 | 111.4 | 8.593746 | 537 | 1.406234 | 9.999666 | 10 | |
| 15 | 0 | 8.593948 | 536 | 111.6 | 8.594283 | 537 | 1.405717 | 9.999665 | 0 | 45 |
| | 10 | 8.594484 | 535 | 111.9 | 8.594820 | 535 | 1.405180 | 9.999664 | 50 | |
| | 20 | 8.595019 | 534 | 112.2 | 8.595355 | 535 | 1.404645 | 9.999663 | 40 | |
| | 30 | 8.595553 | 534 | 112.4 | 8.595890 | 535 | 1.404110 | 9.999663 | 30 | |
| | 40 | 8.596087 | 534 | 112.7 | 8.596425 | 535 | 1.403575 | 9.999662 | 20 | |
| | 50 | 8.596619 | 533 | 113.0 | 8.596959 | 533 | 1.403041 | 9.999661 | 10 | |
| 16 | 0 | 8.597152 | 531 | 113.3 | 8.597497 | 532 | 1.402508 | 9.999660 | 0 | 44 |
| | 10 | 8.597683 | 531 | 113.5 | 8.598032 | 532 | 1.401976 | 9.999659 | 50 | |
| | 20 | 8.598214 | 531 | 113.8 | 8.598566 | 531 | 1.401444 | 9.999658 | 40 | |
| | 30 | 8.598745 | 529 | 114.1 | 8.599087 | 531 | 1.400913 | 9.999658 | 30 | |
| | 40 | 8.599274 | 529 | 114.4 | 8.599618 | 529 | 1.400382 | 9.999657 | 20 | |
| | 50 | 8.599803 | 529 | 114.7 | 8.600147 | 530 | 1.399853 | 9.999656 | 10 | |
| 17 | 0 | 8.600332 | 527 | 115.0 | 8.600677 | 528 | 1.399323 | 9.999655 | 0 | 43 |
| | 10 | 8.600859 | 528 | 115.2 | 8.601205 | 528 | 1.398795 | 9.999654 | 50 | |
| | 20 | 8.601387 | 526 | 115.5 | 8.601733 | 527 | 1.398267 | 9.999653 | 40 | |
| | 30 | 8.601913 | 526 | 115.8 | 8.602260 | 527 | 1.397740 | 9.999653 | 30 | |
| | 40 | 8.602439 | 525 | 116.1 | 8.602787 | 526 | 1.397213 | 9.999652 | 20 | |
| | 50 | 8.602964 | 525 | 116.4 | 8.603313 | 526 | 1.396687 | 9.999651 | 10 | |
| 18 | 0 | 8.603489 | 523 | 116.6 | 8.603839 | 524 | 1.396161 | 9.999650 | 0 | 42 |
| | 10 | 8.604012 | 524 | 116.9 | 8.604363 | 524 | 1.395637 | 9.999649 | 50 | |
| | 20 | 8.604536 | 522 | 117.2 | 8.604887 | 524 | 1.395113 | 9.999648 | 40 | |
| | 30 | 8.605056 | 522 | 117.5 | 8.605411 | 523 | 1.394589 | 9.999647 | 30 | |
| | 40 | 8.605580 | 522 | 117.8 | 8.605934 | 523 | 1.394066 | 9.999647 | 20 | |
| | 50 | 8.606102 | 521 | 118.1 | 8.606456 | 522 | 1.393544 | 9.999646 | 10 | |
| 19 | 0 | 8.606623 | 520 | 118.3 | 8.606978 | 521 | 1.393022 | 9.999645 | 0 | 41 |
| | 10 | 8.607143 | 519 | 118.6 | 8.607499 | 520 | 1.392501 | 9.999644 | 50 | |
| | 20 | 8.607662 | 519 | 118.9 | 8.608019 | 520 | 1.391981 | 9.999643 | 40 | |
| | 30 | 8.608181 | 518 | 119.2 | 8.608539 | 519 | 1.391461 | 9.999642 | 30 | |
| | 40 | 8.608699 | 518 | 119.5 | 8.609058 | 518 | 1.390942 | 9.999641 | 20 | |
| | 50 | 8.609217 | 517 | 119.8 | 8.609576 | 518 | 1.390424 | 9.999640 | 10 | |
| 20 | 0 | 8.609734 | | 120.1 | 8.610094 | | 1.389906 | 9.999640 | 0 | 40 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 20 | 0 | 8.609734 | 517 | 120.1 | 8.610094 | 518 | 1.389906 | 9.999640 | 0 | 40 |
| | 10 | 8.610251 | 517 | 120.3 | 8.610612 | 516 | 1.389388 | 9.999639 | 50 | |
| | 20 | 8.610766 | 516 | 120.6 | 8.611128 | 516 | 1.388872 | 9.999638 | 40 | |
| | 30 | 8.611282 | 514 | 120.9 | 8.611644 | 516 | 1.388356 | 9.999637 | 30 | |
| | 40 | 8.611796 | 514 | 121.2 | 8.612160 | 515 | 1.387840 | 9.999636 | 20 | |
| | 50 | 8.612310 | 513 | 121.5 | 8.612675 | 514 | 1.387325 | 9.999635 | 10 | |
| 21 | 0 | 8.612823 | 513 | 121.8 | 8.613189 | 513 | 1.386811 | 9.999635 | 0 | 39 |
| | 10 | 8.613336 | 512 | 122.1 | 8.613702 | 513 | 1.386298 | 9.999634 | 50 | |
| | 20 | 8.613848 | 512 | 122.3 | 8.614215 | 513 | 1.385785 | 9.999633 | 40 | |
| | 30 | 8.614360 | 511 | 122.6 | 8.614728 | 512 | 1.385272 | 9.999632 | 30 | |
| | 40 | 8.614871 | 510 | 122.9 | 8.615240 | 512 | 1.384760 | 9.999631 | 20 | |
| | 50 | 8.615381 | 510 | 123.2 | 8.615751 | 511 | 1.384249 | 9.999630 | 10 | |
| 22 | 0 | 8.615891 | 509 | 123.5 | 8.616262 | 510 | 1.383738 | 9.999629 | 0 | 38 |
| | 10 | 8.616400 | 509 | 123.8 | 8.616772 | 509 | 1.383228 | 9.999629 | 50 | |
| | 20 | 8.616909 | 508 | 124.1 | 8.617281 | 509 | 1.382719 | 9.999628 | 40 | |
| | 30 | 8.617417 | 507 | 124.4 | 8.617790 | 508 | 1.382210 | 9.999627 | 30 | |
| | 40 | 8.617924 | 507 | 124.7 | 8.618298 | 508 | 1.381702 | 9.999626 | 20 | |
| | 50 | 8.618431 | 506 | 125.0 | 8.618806 | 507 | 1.381194 | 9.999625 | 10 | |
| 23 | 0 | 8.618937 | 505 | 125.3 | 8.619313 | 506 | 1.380687 | 9.999624 | 0 | 37 |
| | 10 | 8.619442 | 505 | 125.5 | 8.619819 | 506 | 1.380181 | 9.999623 | 50 | |
| | 20 | 8.619947 | 505 | 125.8 | 8.620325 | 505 | 1.379675 | 9.999622 | 40 | |
| | 30 | 8.620452 | 504 | 126.1 | 8.620830 | 505 | 1.379170 | 9.999622 | 30 | |
| | 40 | 8.620956 | 503 | 126.4 | 8.621335 | 504 | 1.378665 | 9.999621 | 20 | |
| | 50 | 8.621459 | 503 | 126.7 | 8.621839 | 504 | 1.378161 | 9.999620 | 10 | |
| 24 | 0 | 8.621962 | 502 | 127.0 | 8.622343 | 503 | 1.377657 | 9.999619 | 0 | 36 |
| | 10 | 8.622464 | 501 | 127.3 | 8.622847 | 502 | 1.377154 | 9.999618 | 50 | |
| | 20 | 8.622965 | 501 | 127.6 | 8.623348 | 502 | 1.376652 | 9.999617 | 40 | |
| | 30 | 8.623466 | 500 | 127.9 | 8.623850 | 501 | 1.376150 | 9.999616 | 30 | |
| | 40 | 8.623966 | 500 | 128.2 | 8.624351 | 501 | 1.375649 | 9.999615 | 20 | |
| | 50 | 8.624466 | 499 | 128.5 | 8.624852 | 500 | 1.375148 | 9.999614 | 10 | |
| 25 | 0 | 8.624965 | 499 | 128.8 | 8.625352 | 499 | 1.374648 | 9.999613 | 0 | 35 |
| | 10 | 8.625464 | 498 | 129.1 | 8.625851 | 499 | 1.374149 | 9.999612 | 50 | |
| | 20 | 8.625962 | 497 | 129.4 | 8.626350 | 499 | 1.373650 | 9.999611 | 40 | |
| | 30 | 8.626459 | 497 | 129.7 | 8.626849 | 497 | 1.373151 | 9.999610 | 30 | |
| | 40 | 8.626956 | 497 | 130.0 | 8.627346 | 498 | 1.372654 | 9.999609 | 20 | |
| | 50 | 8.627453 | 495 | 130.3 | 8.627844 | 496 | 1.372156 | 9.999608 | 10 | |
| 26 | 0 | 8.627948 | 496 | 130.6 | 8.628340 | 496 | 1.371660 | 9.999607 | 0 | 34 |
| | 10 | 8.628444 | 494 | 130.9 | 8.628836 | 496 | 1.371164 | 9.999606 | 50 | |
| | 20 | 8.628938 | 494 | 131.2 | 8.629332 | 495 | 1.370668 | 9.999605 | 40 | |
| | 30 | 8.629432 | 494 | 131.5 | 8.629827 | 494 | 1.370173 | 9.999604 | 30 | |
| | 40 | 8.629926 | 493 | 131.8 | 8.630321 | 494 | 1.369679 | 9.999603 | 20 | |
| | 50 | 8.630419 | 492 | 132.2 | 8.630815 | 493 | 1.369185 | 9.999602 | 10 | |
| 27 | 0 | 8.630911 | 492 | 132.4 | 8.631308 | 493 | 1.368692 | 9.999601 | 0 | 33 |
| | 10 | 8.631403 | 491 | 132.7 | 8.631801 | 492 | 1.368199 | 9.999600 | 50 | |
| | 20 | 8.631894 | 491 | 133.0 | 8.632293 | 492 | 1.367707 | 9.999599 | 40 | |
| | 30 | 8.632385 | 490 | 133.3 | 8.632785 | 491 | 1.367215 | 9.999598 | 30 | |
| | 40 | 8.632875 | 490 | 133.6 | 8.633276 | 490 | 1.366724 | 9.999597 | 20 | |
| | 50 | 8.633365 | 489 | 133.9 | 8.633766 | 490 | 1.366232 | 9.999596 | 10 | |
| 28 | 0 | 8.633854 | 488 | 134.2 | 8.634256 | 490 | 1.365744 | 9.999595 | 0 | 32 |
| | 10 | 8.634342 | 488 | 134.5 | 8.634746 | 489 | 1.365254 | 9.999594 | 50 | |
| | 20 | 8.634830 | 487 | 134.8 | 8.635235 | 488 | 1.364765 | 9.999593 | 40 | |
| | 30 | 8.635317 | 487 | 135.1 | 8.635723 | 488 | 1.364277 | 9.999592 | 30 | |
| | 40 | 8.635804 | 487 | 135.4 | 8.636211 | 487 | 1.363789 | 9.999591 | 20 | |
| | 50 | 8.636291 | 485 | 135.7 | 8.636698 | 486 | 1.363302 | 9.999590 | 10 | |
| 29 | 0 | 8.636776 | 486 | 136.0 | 8.637184 | 487 | 1.362816 | 9.999589 | 0 | 31 |
| | 10 | 8.637262 | 484 | 136.3 | 8.637671 | 485 | 1.362329 | 9.999588 | 50 | |
| | 20 | 8.637746 | 484 | 136.6 | 8.638156 | 485 | 1.361844 | 9.999587 | 40 | |
| | 30 | 8.638230 | 484 | 136.9 | 8.638641 | 485 | 1.361359 | 9.999586 | 30 | |
| | 40 | 8.638714 | 483 | 137.2 | 8.639126 | 484 | 1.360874 | 9.999585 | 20 | |
| | 50 | 8.639197 | 483 | 137.5 | 8.639610 | 483 | 1.360390 | 9.999584 | 10 | |
| 30 | 0 | 8.639680 | 483 | 137.8 | 8.640093 | 483 | 1.359907 | 9.999583 | 0 | 30 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 30 | 0 | 8.639680 | 482 | 137.8 | 8.640093 | 483 | 1.359907 | 9.999586 | 0 | 30 |
| | 10 | 8.640162 | 481 | 138.1 | 8.640576 | 482 | 1.359424 | 9.999586 | 50 | |
| | 20 | 8.640643 | 481 | 138.4 | 8.641058 | 482 | 1.358942 | 9.999585 | 40 | |
| | 30 | 8.641124 | 480 | 138.7 | 8.641540 | 481 | 1.358460 | 9.999584 | 30 | |
| | 40 | 8.641604 | 480 | 139.0 | 8.642021 | 481 | 1.357979 | 9.999583 | 20 | |
| | 50 | 8.642084 | 479 | 139.4 | 8.642502 | 480 | 1.357498 | 9.999582 | 10 | |
| 31 | 0 | 8.642563 | 479 | 139.7 | 8.642982 | 480 | 1.357018 | 9.999581 | 0 | 29 |
| | 10 | 8.643042 | 478 | 140.0 | 8.643462 | 479 | 1.356538 | 9.999580 | 50 | |
| | 20 | 8.643520 | 478 | 140.3 | 8.643941 | 479 | 1.356059 | 9.999579 | 40 | |
| | 30 | 8.643998 | 477 | 140.6 | 8.644420 | 478 | 1.355580 | 9.999578 | 30 | |
| | 40 | 8.644475 | 477 | 140.9 | 8.644898 | 478 | 1.355102 | 9.999577 | 20 | |
| | 50 | 8.644952 | 476 | 141.2 | 8.645376 | 477 | 1.354624 | 9.999576 | 10 | |
| 32 | 0 | 8.645428 | 476 | 141.5 | 8.645853 | 476 | 1.354147 | 9.999575 | 0 | 28 |
| | 10 | 8.645904 | 475 | 141.8 | 8.646329 | 476 | 1.353671 | 9.999574 | 50 | |
| | 20 | 8.646379 | 475 | 142.1 | 8.646805 | 476 | 1.353195 | 9.999573 | 40 | |
| | 30 | 8.646854 | 474 | 142.4 | 8.647281 | 475 | 1.352719 | 9.999573 | 30 | |
| | 40 | 8.647328 | 473 | 142.8 | 8.647756 | 474 | 1.352244 | 9.999572 | 20 | |
| | 50 | 8.647801 | 473 | 143.1 | 8.648230 | 474 | 1.351770 | 9.999571 | 10 | |
| 33 | 0 | 8.648274 | 473 | 143.4 | 8.648704 | 474 | 1.351296 | 9.999570 | 0 | 27 |
| | 10 | 8.648747 | 472 | 143.7 | 8.649178 | 473 | 1.350822 | 9.999569 | 50 | |
| | 20 | 8.649219 | 471 | 144.0 | 8.649651 | 473 | 1.350349 | 9.999568 | 40 | |
| | 30 | 8.649690 | 471 | 144.3 | 8.650123 | 472 | 1.349877 | 9.999567 | 30 | |
| | 40 | 8.650161 | 471 | 144.6 | 8.650595 | 472 | 1.349405 | 9.999566 | 20 | |
| | 50 | 8.650632 | 470 | 144.9 | 8.651067 | 470 | 1.348933 | 9.999565 | 10 | |
| 34 | 0 | 8.651102 | 469 | 145.3 | 8.651537 | 471 | 1.348463 | 9.999564 | 0 | 26 |
| | 10 | 8.651571 | 469 | 145.6 | 8.652008 | 470 | 1.347992 | 9.999563 | 50 | |
| | 20 | 8.652040 | 468 | 145.9 | 8.652478 | 469 | 1.347522 | 9.999562 | 40 | |
| | 30 | 8.652508 | 468 | 146.2 | 8.652947 | 469 | 1.347053 | 9.999561 | 30 | |
| | 40 | 8.652976 | 468 | 146.5 | 8.653416 | 469 | 1.346584 | 9.999560 | 20 | |
| | 50 | 8.653444 | 467 | 146.8 | 8.653884 | 468 | 1.346116 | 9.999559 | 10 | |
| 35 | 0 | 8.653911 | 466 | 147.2 | 8.654352 | 468 | 1.345648 | 9.999558 | 0 | 25 |
| | 10 | 8.654377 | 466 | 147.5 | 8.654820 | 466 | 1.345180 | 9.999557 | 50 | |
| | 20 | 8.654843 | 465 | 147.8 | 8.655286 | 467 | 1.344714 | 9.999557 | 40 | |
| | 30 | 8.655308 | 465 | 148.1 | 8.655753 | 466 | 1.344247 | 9.999556 | 30 | |
| | 40 | 8.655773 | 465 | 148.4 | 8.656219 | 465 | 1.343781 | 9.999555 | 20 | |
| | 50 | 8.656238 | 464 | 148.7 | 8.656684 | 465 | 1.343316 | 9.999554 | 10 | |
| 36 | 0 | 8.656702 | 463 | 149.1 | 8.657149 | 464 | 1.342851 | 9.999553 | 0 | 24 |
| | 10 | 8.657165 | 463 | 149.4 | 8.657613 | 464 | 1.342387 | 9.999552 | 50 | |
| | 20 | 8.657628 | 462 | 149.7 | 8.658077 | 464 | 1.341923 | 9.999551 | 40 | |
| | 30 | 8.658090 | 462 | 150.0 | 8.658541 | 464 | 1.341459 | 9.999550 | 30 | |
| | 40 | 8.658552 | 462 | 150.3 | 8.659004 | 463 | 1.340996 | 9.999549 | 20 | |
| | 50 | 8.659014 | 461 | 150.7 | 8.659466 | 462 | 1.340534 | 9.999548 | 10 | |
| 37 | 0 | 8.659475 | 460 | 151.0 | 8.659928 | 461 | 1.340072 | 9.999547 | 0 | 23 |
| | 10 | 8.659935 | 460 | 151.3 | 8.660389 | 461 | 1.339611 | 9.999546 | 50 | |
| | 20 | 8.660395 | 460 | 151.6 | 8.660850 | 461 | 1.339150 | 9.999545 | 40 | |
| | 30 | 8.660855 | 459 | 151.9 | 8.661311 | 460 | 1.338689 | 9.999544 | 30 | |
| | 40 | 8.661314 | 458 | 152.3 | 8.661771 | 459 | 1.338229 | 9.999543 | 20 | |
| | 50 | 8.661772 | 458 | 152.6 | 8.662230 | 459 | 1.337770 | 9.999542 | 10 | |
| 38 | 0 | 8.662230 | 457 | 152.9 | 8.662689 | 459 | 1.337311 | 9.999541 | 0 | 22 |
| | 10 | 8.662688 | 457 | 153.2 | 8.663147 | 458 | 1.336852 | 9.999540 | 50 | |
| | 20 | 8.663145 | 457 | 153.6 | 8.663606 | 458 | 1.336394 | 9.999539 | 40 | |
| | 30 | 8.663602 | 456 | 153.9 | 8.664063 | 457 | 1.335937 | 9.999538 | 30 | |
| | 40 | 8.664058 | 455 | 154.2 | 8.664520 | 457 | 1.335480 | 9.999537 | 20 | |
| | 50 | 8.664513 | 455 | 154.5 | 8.664977 | 456 | 1.335023 | 9.999536 | 10 | |
| 39 | 0 | 8.664968 | 455 | 154.8 | 8.665433 | 456 | 1.334566 | 9.999535 | 0 | 21 |
| | 10 | 8.665423 | 454 | 155.2 | 8.665889 | 455 | 1.334111 | 9.999534 | 50 | |
| | 20 | 8.665877 | 454 | 155.5 | 8.666344 | 455 | 1.333656 | 9.999533 | 40 | |
| | 30 | 8.666331 | 453 | 155.8 | 8.666799 | 454 | 1.333201 | 9.999532 | 30 | |
| | 40 | 8.666784 | 453 | 156.2 | 8.667253 | 454 | 1.332747 | 9.999531 | 20 | |
| | 50 | 8.667237 | 452 | 156.5 | 8.667707 | 454 | 1.332293 | 9.999530 | 10 | |
| 40 | 0 | 8.667689 | 452 | 156.8 | 8.668160 | 453 | 1.331840 | 9.999529 | 0 | 20 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | ' | " |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 40 | o | 8.667689 | 452 | 156.8 | 8.668160 | 453 | 1.331840 | 9.999529 | o | 20 |
| | 10 | 8.668141 | 451 | 157.1 | 8.668613 | 452 | 1.331387 | 9.999528 | 50 | 40 |
| | 20 | 8.668592 | 451 | 157.5 | 8.669065 | 452 | 1.330935 | 9.999527 | 50 | 30 |
| | 30 | 8.669043 | 451 | 157.8 | 8.669517 | 452 | 1.330483 | 9.999527 | 50 | 20 |
| | 40 | 8.669494 | 451 | 158.1 | 8.669968 | 451 | 1.330032 | 9.999526 | 50 | 10 |
| | 50 | 8.669944 | 450 | 158.4 | 8.670419 | 451 | 1.329581 | 9.999525 | 50 | 0 |
| 41 | o | 8.670395 | 449 | 158.8 | 8.670870 | 450 | 1.329130 | 9.999524 | o | 19 |
| | 10 | 8.671291 | 449 | 159.1 | 8.671320 | 451 | 1.328680 | 9.999523 | 50 | 50 |
| | 20 | 8.671739 | 448 | 159.4 | 8.671769 | 449 | 1.328231 | 9.999522 | 50 | 40 |
| | 30 | 8.672187 | 448 | 159.8 | 8.672218 | 449 | 1.327782 | 9.999521 | 50 | 30 |
| | 40 | 8.672634 | 447 | 160.1 | 8.672667 | 449 | 1.327333 | 9.999520 | 50 | 20 |
| | 50 | 8.673080 | 446 | 160.4 | 8.673115 | 448 | 1.326885 | 9.999519 | 50 | 10 |
| 42 | o | 8.673527 | 447 | 160.7 | 8.673563 | 447 | 1.326437 | 9.999518 | o | 18 |
| | 10 | 8.673972 | 445 | 161.1 | 8.674010 | 448 | 1.325990 | 9.999517 | 50 | 50 |
| | 20 | 8.674418 | 446 | 161.4 | 8.674457 | 447 | 1.325543 | 9.999516 | 50 | 40 |
| | 30 | 8.674863 | 445 | 161.7 | 8.674903 | 446 | 1.325097 | 9.999515 | 50 | 30 |
| | 40 | 8.675308 | 444 | 162.1 | 8.675349 | 446 | 1.324651 | 9.999514 | 50 | 20 |
| | 50 | 8.675753 | 444 | 162.4 | 8.675794 | 445 | 1.324206 | 9.999513 | 50 | 10 |
| 43 | o | 8.676199 | 443 | 162.7 | 8.676239 | 445 | 1.323761 | 9.999512 | o | 17 |
| | 10 | 8.676643 | 444 | 163.1 | 8.676684 | 445 | 1.323316 | 9.999511 | 50 | 50 |
| | 20 | 8.677088 | 442 | 163.4 | 8.677128 | 444 | 1.322872 | 9.999510 | 50 | 40 |
| | 30 | 8.677532 | 442 | 163.7 | 8.677572 | 444 | 1.322428 | 9.999509 | 50 | 30 |
| | 40 | 8.677976 | 442 | 164.1 | 8.678015 | 443 | 1.321985 | 9.999508 | 50 | 20 |
| | 50 | 8.678420 | 441 | 164.4 | 8.678457 | 442 | 1.321543 | 9.999507 | 50 | 10 |
| 44 | o | 8.678864 | 441 | 164.7 | 8.678900 | 443 | 1.321100 | 9.999506 | o | 16 |
| | 10 | 8.679308 | 440 | 165.1 | 8.679341 | 441 | 1.320659 | 9.999505 | 50 | 50 |
| | 20 | 8.679752 | 440 | 165.4 | 8.679783 | 442 | 1.320217 | 9.999504 | 50 | 40 |
| | 30 | 8.680196 | 440 | 165.7 | 8.680224 | 441 | 1.319776 | 9.999503 | 50 | 30 |
| | 40 | 8.680640 | 439 | 166.1 | 8.680664 | 440 | 1.319336 | 9.999502 | 50 | 20 |
| | 50 | 8.681084 | 438 | 166.4 | 8.681104 | 440 | 1.318896 | 9.999501 | 50 | 10 |
| 45 | o | 8.681528 | 438 | 166.8 | 8.681544 | 439 | 1.318456 | 9.999500 | o | 15 |
| | 10 | 8.681972 | 438 | 167.1 | 8.681983 | 439 | 1.318017 | 9.999499 | 50 | 50 |
| | 20 | 8.682416 | 437 | 167.4 | 8.682422 | 439 | 1.317578 | 9.999498 | 50 | 40 |
| | 30 | 8.682860 | 437 | 167.8 | 8.682860 | 438 | 1.317140 | 9.999497 | 50 | 30 |
| | 40 | 8.683304 | 437 | 168.1 | 8.683298 | 438 | 1.316702 | 9.999496 | 50 | 20 |
| | 50 | 8.683748 | 436 | 168.4 | 8.683735 | 437 | 1.316265 | 9.999495 | 50 | 10 |
| 46 | o | 8.684192 | 435 | 168.8 | 8.684172 | 437 | 1.315828 | 9.999494 | o | 14 |
| | 10 | 8.684636 | 435 | 169.1 | 8.684608 | 436 | 1.315392 | 9.999493 | 50 | 50 |
| | 20 | 8.685080 | 435 | 169.5 | 8.685044 | 436 | 1.314956 | 9.999491 | 50 | 40 |
| | 30 | 8.685524 | 434 | 169.8 | 8.685480 | 436 | 1.314520 | 9.999490 | 50 | 30 |
| | 40 | 8.685968 | 433 | 170.1 | 8.685915 | 435 | 1.314085 | 9.999489 | 50 | 20 |
| | 50 | 8.686412 | 434 | 170.5 | 8.686350 | 435 | 1.313650 | 9.999488 | 50 | 10 |
| 47 | o | 8.686856 | 433 | 170.8 | 8.686784 | 434 | 1.313216 | 9.999487 | o | 13 |
| | 10 | 8.687300 | 432 | 171.2 | 8.687218 | 434 | 1.312782 | 9.999486 | 50 | 50 |
| | 20 | 8.687744 | 432 | 171.5 | 8.687652 | 434 | 1.312348 | 9.999485 | 50 | 40 |
| | 30 | 8.688188 | 432 | 171.8 | 8.688085 | 433 | 1.311915 | 9.999484 | 50 | 30 |
| | 40 | 8.688632 | 431 | 172.2 | 8.688517 | 432 | 1.311483 | 9.999483 | 50 | 20 |
| | 50 | 8.689076 | 431 | 172.5 | 8.688950 | 433 | 1.311050 | 9.999482 | 50 | 10 |
| 48 | o | 8.689520 | 430 | 172.9 | 8.689381 | 431 | 1.310619 | 9.999481 | o | 12 |
| | 10 | 8.689964 | 430 | 173.2 | 8.689813 | 432 | 1.310187 | 9.999480 | 50 | 50 |
| | 20 | 8.690408 | 429 | 173.6 | 8.690244 | 431 | 1.309756 | 9.999479 | 50 | 40 |
| | 30 | 8.690852 | 429 | 173.9 | 8.690674 | 430 | 1.309326 | 9.999478 | 50 | 30 |
| | 40 | 8.691296 | 429 | 174.3 | 8.691104 | 430 | 1.308896 | 9.999477 | 50 | 20 |
| | 50 | 8.691740 | 428 | 174.6 | 8.691534 | 430 | 1.308466 | 9.999476 | 50 | 10 |
| 49 | o | 8.692184 | 428 | 174.9 | 8.691963 | 429 | 1.308037 | 9.999475 | o | 11 |
| | 10 | 8.692628 | 427 | 175.3 | 8.692392 | 429 | 1.307608 | 9.999474 | 50 | 50 |
| | 20 | 8.693072 | 427 | 175.6 | 8.692820 | 428 | 1.307180 | 9.999473 | 50 | 40 |
| | 30 | 8.693516 | 426 | 176.0 | 8.693248 | 427 | 1.306752 | 9.999472 | 50 | 30 |
| | 40 | 8.693960 | 426 | 176.3 | 8.693677 | 427 | 1.306325 | 9.999471 | 50 | 20 |
| | 50 | 8.694404 | 426 | 176.7 | 8.694103 | 428 | 1.305897 | 9.999470 | 50 | 10 |
| 50 | o | 8.694848 | 426 | 177.0 | 8.694529 | 426 | 1.305471 | 9.999469 | o | 10 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | ' | " |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 50 | o | 8.693998 | 425 | 177.0 | 8.694529 | 427 | 1.305471 | 9.999469 | o | 10 |
| | 10 | 8.694423 | 425 | 177.4 | 8.694956 | 427 | 1.305044 | 9.999468 | 50 | |
| | 20 | 8.694848 | 424 | 177.7 | 8.695381 | 425 | 1.304619 | 9.999467 | 40 | |
| | 30 | 8.695272 | 424 | 178.1 | 8.695807 | 426 | 1.304193 | 9.999466 | 30 | |
| | 40 | 8.695696 | 424 | 178.4 | 8.696232 | 425 | 1.303768 | 9.999465 | 20 | |
| | 50 | 8.696120 | 424 | 178.8 | 8.696656 | 424 | 1.303344 | 9.999464 | 10 | |
| 51 | o | 8.696543 | 423 | 179.1 | 8.697081 | 425 | 1.302919 | 9.999463 | o | 9 |
| | 10 | 8.696966 | 422 | 179.5 | 8.697504 | 423 | 1.302496 | 9.999461 | 50 | |
| | 20 | 8.697388 | 422 | 179.8 | 8.697928 | 424 | 1.302072 | 9.999460 | 40 | |
| | 30 | 8.697810 | 422 | 180.2 | 8.698351 | 423 | 1.301649 | 9.999459 | 30 | |
| | 40 | 8.698232 | 421 | 180.5 | 8.698773 | 422 | 1.301227 | 9.999458 | 20 | |
| | 50 | 8.698653 | 420 | 180.9 | 8.699195 | 422 | 1.300805 | 9.999457 | 10 | |
| 52 | o | 8.699073 | 421 | 181.2 | 8.699617 | 421 | 1.300383 | 9.999456 | o | 8 |
| | 10 | 8.699494 | 419 | 181.6 | 8.700038 | 421 | 1.299962 | 9.999455 | 50 | |
| | 20 | 8.699913 | 420 | 181.9 | 8.700459 | 421 | 1.299541 | 9.999454 | 40 | |
| | 30 | 8.700333 | 419 | 182.3 | 8.700880 | 420 | 1.299120 | 9.999453 | 30 | |
| | 40 | 8.700752 | 419 | 182.6 | 8.701300 | 420 | 1.298700 | 9.999452 | 20 | |
| | 50 | 8.701171 | 418 | 183.0 | 8.701720 | 420 | 1.298280 | 9.999451 | 10 | |
| 53 | o | 8.701589 | 418 | 183.3 | 8.702139 | 419 | 1.297861 | 9.999450 | o | 7 |
| | 10 | 8.702007 | 417 | 183.7 | 8.702558 | 419 | 1.297442 | 9.999449 | 50 | |
| | 20 | 8.702424 | 417 | 184.0 | 8.702976 | 418 | 1.297024 | 9.999448 | 40 | |
| | 30 | 8.702841 | 417 | 184.4 | 8.703395 | 417 | 1.296605 | 9.999447 | 30 | |
| | 40 | 8.703258 | 416 | 184.7 | 8.703812 | 417 | 1.296188 | 9.999446 | 20 | |
| | 50 | 8.703674 | 416 | 185.1 | 8.704230 | 418 | 1.295770 | 9.999445 | 10 | |
| 54 | o | 8.704090 | 415 | 185.4 | 8.704646 | 417 | 1.295354 | 9.999443 | o | 6 |
| | 10 | 8.704505 | 415 | 185.8 | 8.705063 | 416 | 1.294937 | 9.999442 | 50 | |
| | 20 | 8.704920 | 415 | 186.2 | 8.705479 | 416 | 1.294521 | 9.999441 | 40 | |
| | 30 | 8.705335 | 414 | 186.5 | 8.705895 | 415 | 1.294105 | 9.999440 | 30 | |
| | 40 | 8.705749 | 414 | 186.9 | 8.706310 | 415 | 1.293690 | 9.999439 | 20 | |
| | 50 | 8.706163 | 414 | 187.2 | 8.706725 | 415 | 1.293275 | 9.999438 | 10 | |
| 55 | o | 8.706577 | 413 | 187.6 | 8.707140 | 414 | 1.292860 | 9.999437 | o | 5 |
| | 10 | 8.706990 | 412 | 187.9 | 8.707554 | 413 | 1.292446 | 9.999436 | 50 | |
| | 20 | 8.707402 | 413 | 188.3 | 8.707967 | 414 | 1.292033 | 9.999435 | 40 | |
| | 30 | 8.707815 | 411 | 188.7 | 8.708381 | 413 | 1.291619 | 9.999434 | 30 | |
| | 40 | 8.708226 | 412 | 189.0 | 8.708794 | 412 | 1.291206 | 9.999433 | 20 | |
| | 50 | 8.708638 | 411 | 189.4 | 8.709207 | 412 | 1.290794 | 9.999432 | 10 | |
| 56 | o | 8.709049 | 411 | 189.7 | 8.709620 | 412 | 1.290382 | 9.999431 | o | 4 |
| | 10 | 8.709460 | 410 | 190.1 | 8.710030 | 412 | 1.289970 | 9.999430 | 50 | |
| | 20 | 8.709870 | 410 | 190.5 | 8.710442 | 412 | 1.289558 | 9.999428 | 40 | |
| | 30 | 8.710280 | 410 | 190.8 | 8.710853 | 411 | 1.289147 | 9.999427 | 30 | |
| | 40 | 8.710690 | 409 | 191.2 | 8.711263 | 411 | 1.288737 | 9.999426 | 20 | |
| | 50 | 8.711099 | 408 | 191.5 | 8.711674 | 411 | 1.288325 | 9.999425 | 10 | |
| 57 | o | 8.711507 | 409 | 191.9 | 8.712083 | 410 | 1.287914 | 9.999424 | o | 3 |
| | 10 | 8.711916 | 408 | 192.3 | 8.712493 | 409 | 1.287502 | 9.999423 | 50 | |
| | 20 | 8.712324 | 407 | 192.6 | 8.712902 | 409 | 1.287098 | 9.999422 | 40 | |
| | 30 | 8.712731 | 408 | 193.0 | 8.713311 | 408 | 1.286689 | 9.999421 | 30 | |
| | 40 | 8.713139 | 407 | 193.3 | 8.713719 | 408 | 1.286281 | 9.999420 | 20 | |
| | 50 | 8.713546 | 406 | 193.7 | 8.714127 | 407 | 1.285873 | 9.999419 | 10 | |
| 58 | o | 8.713952 | 406 | 194.1 | 8.714534 | 408 | 1.285466 | 9.999418 | o | 2 |
| | 10 | 8.714358 | 406 | 194.4 | 8.714942 | 406 | 1.285058 | 9.999416 | 50 | |
| | 20 | 8.714764 | 405 | 194.8 | 8.715348 | 407 | 1.284652 | 9.999415 | 40 | |
| | 30 | 8.715169 | 405 | 195.2 | 8.715755 | 406 | 1.284245 | 9.999414 | 30 | |
| | 40 | 8.715574 | 405 | 195.5 | 8.716161 | 406 | 1.283839 | 9.999413 | 20 | |
| | 50 | 8.715979 | 404 | 195.9 | 8.716567 | 405 | 1.283432 | 9.999412 | 10 | |
| 59 | o | 8.716383 | 404 | 196.3 | 8.716972 | 405 | 1.283025 | 9.999411 | o | 1 |
| | 10 | 8.716787 | 403 | 196.6 | 8.717377 | 404 | 1.282623 | 9.999410 | 50 | |
| | 20 | 8.717190 | 403 | 197.0 | 8.717781 | 404 | 1.282219 | 9.999409 | 40 | |
| | 30 | 8.717593 | 403 | 197.4 | 8.718186 | 405 | 1.281814 | 9.999408 | 30 | |
| | 40 | 8.717996 | 402 | 197.7 | 8.718589 | 403 | 1.281411 | 9.999407 | 20 | |
| | 50 | 8.718398 | 402 | 198.1 | 8.718993 | 404 | 1.281007 | 9.999406 | 10 | |
| 60 | o | 8.718800 | 402 | 198.5 | 8.719396 | 403 | 1.280604 | 9.999404 | o | 0 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 0 | o | 8.718800 | 402 | 198.5 | 8.719396 | 402 | 1.280604 | 9.999404 | o | 60 |
| | 10 | 8.719202 | 401 | 198.8 | 8.719798 | 403 | 1.280202 | 9.999403 | 50 | |
| | 20 | 8.719603 | 401 | 199.2 | 8.720201 | 402 | 1.279799 | 9.999402 | 40 | |
| | 30 | 8.720004 | 400 | 199.6 | 8.720603 | 401 | 1.279397 | 9.999401 | 30 | |
| | 40 | 8.720404 | 400 | 199.9 | 8.721004 | 401 | 1.278996 | 9.999400 | 20 | |
| | 50 | 8.720804 | 400 | 200.3 | 8.721405 | 401 | 1.278595 | 9.999399 | 10 | |
| 1 | o | 8.721204 | 399 | 200.7 | 8.721806 | 401 | 1.278194 | 9.999398 | o | 59 |
| | 10 | 8.721603 | 399 | 201.0 | 8.722207 | 400 | 1.277793 | 9.999397 | 50 | |
| | 20 | 8.722002 | 399 | 201.4 | 8.722607 | 400 | 1.277393 | 9.999396 | 40 | |
| | 30 | 8.722401 | 398 | 201.8 | 8.723007 | 399 | 1.276993 | 9.999394 | 30 | |
| | 40 | 8.722799 | 398 | 202.2 | 8.723406 | 399 | 1.276594 | 9.999393 | 20 | |
| | 50 | 8.723197 | 398 | 202.5 | 8.723805 | 399 | 1.276195 | 9.999392 | 10 | |
| 2 | o | 8.723595 | 397 | 202.9 | 8.724204 | 398 | 1.275796 | 9.999391 | o | 58 |
| | 10 | 8.723992 | 397 | 203.3 | 8.724602 | 398 | 1.275398 | 9.999390 | 50 | |
| | 20 | 8.724389 | 397 | 203.6 | 8.725000 | 397 | 1.275000 | 9.999389 | 40 | |
| | 30 | 8.724785 | 396 | 204.0 | 8.725397 | 397 | 1.274603 | 9.999388 | 30 | |
| | 40 | 8.725181 | 396 | 204.4 | 8.725794 | 397 | 1.274206 | 9.999387 | 20 | |
| | 50 | 8.725577 | 395 | 204.8 | 8.726191 | 397 | 1.273809 | 9.999385 | 10 | |
| 3 | o | 8.725972 | 395 | 205.1 | 8.726588 | 396 | 1.273412 | 9.999384 | o | 57 |
| | 10 | 8.726367 | 395 | 205.5 | 8.726984 | 396 | 1.273016 | 9.999383 | 50 | |
| | 20 | 8.726762 | 394 | 205.9 | 8.727380 | 395 | 1.272620 | 9.999382 | 40 | |
| | 30 | 8.727156 | 394 | 206.3 | 8.727775 | 395 | 1.272225 | 9.999381 | 30 | |
| | 40 | 8.727550 | 393 | 206.6 | 8.728170 | 395 | 1.271830 | 9.999380 | 20 | |
| | 50 | 8.727943 | 394 | 207.0 | 8.728565 | 394 | 1.271435 | 9.999379 | 10 | |
| 4 | o | 8.728337 | 392 | 207.4 | 8.728959 | 394 | 1.271041 | 9.999378 | o | 56 |
| | 10 | 8.728729 | 393 | 207.8 | 8.729353 | 393 | 1.270647 | 9.999377 | 50 | |
| | 20 | 8.729122 | 392 | 208.1 | 8.729746 | 394 | 1.270254 | 9.999375 | 40 | |
| | 30 | 8.729514 | 392 | 208.5 | 8.730140 | 393 | 1.269860 | 9.999374 | 30 | |
| | 40 | 8.729906 | 391 | 208.9 | 8.730533 | 392 | 1.269467 | 9.999373 | 20 | |
| | 50 | 8.730297 | 391 | 209.3 | 8.730925 | 392 | 1.269075 | 9.999372 | 10 | |
| 5 | o | 8.730688 | 391 | 209.6 | 8.731317 | 392 | 1.268683 | 9.999371 | o | 55 |
| | 10 | 8.731079 | 390 | 210.0 | 8.731709 | 392 | 1.268291 | 9.999370 | 50 | |
| | 20 | 8.731469 | 390 | 210.4 | 8.732101 | 391 | 1.267899 | 9.999369 | 40 | |
| | 30 | 8.731859 | 390 | 210.8 | 8.732492 | 391 | 1.267508 | 9.999367 | 30 | |
| | 40 | 8.732249 | 389 | 211.2 | 8.732883 | 390 | 1.267117 | 9.999366 | 20 | |
| | 50 | 8.732638 | 389 | 211.5 | 8.733273 | 390 | 1.266727 | 9.999365 | 10 | |
| 6 | o | 8.733027 | 389 | 211.9 | 8.733663 | 390 | 1.266337 | 9.999364 | o | 54 |
| | 10 | 8.733416 | 388 | 212.3 | 8.734053 | 389 | 1.265947 | 9.999363 | 50 | |
| | 20 | 8.733804 | 388 | 212.7 | 8.734442 | 389 | 1.265558 | 9.999362 | 40 | |
| | 30 | 8.734192 | 387 | 213.1 | 8.734831 | 389 | 1.265169 | 9.999361 | 30 | |
| | 40 | 8.734579 | 388 | 213.4 | 8.735220 | 388 | 1.264780 | 9.999359 | 20 | |
| | 50 | 8.734967 | 387 | 213.8 | 8.735608 | 388 | 1.264392 | 9.999358 | 10 | |
| 7 | o | 8.735354 | 386 | 214.2 | 8.735996 | 388 | 1.264004 | 9.999357 | o | 53 |
| | 10 | 8.735740 | 386 | 214.6 | 8.736384 | 387 | 1.263616 | 9.999356 | 50 | |
| | 20 | 8.736126 | 386 | 215.0 | 8.736771 | 387 | 1.263229 | 9.999355 | 40 | |
| | 30 | 8.736512 | 386 | 215.3 | 8.737158 | 387 | 1.262842 | 9.999354 | 30 | |
| | 40 | 8.736898 | 385 | 215.7 | 8.737545 | 386 | 1.262455 | 9.999353 | 20 | |
| | 50 | 8.737283 | 384 | 216.1 | 8.737931 | 386 | 1.262069 | 9.999351 | 10 | |
| 8 | o | 8.737667 | 385 | 216.5 | 8.738317 | 386 | 1.261683 | 9.999350 | o | 52 |
| | 10 | 8.738052 | 384 | 216.9 | 8.738703 | 385 | 1.261297 | 9.999349 | 50 | |
| | 20 | 8.738436 | 384 | 217.3 | 8.739088 | 385 | 1.260912 | 9.999348 | 40 | |
| | 30 | 8.738820 | 383 | 217.6 | 8.739473 | 385 | 1.260527 | 9.999347 | 30 | |
| | 40 | 8.739203 | 383 | 218.0 | 8.739858 | 384 | 1.260142 | 9.999346 | 20 | |
| | 50 | 8.739586 | 383 | 218.4 | 8.740242 | 384 | 1.259758 | 9.999344 | 10 | |
| 9 | o | 8.739969 | 383 | 218.8 | 8.740626 | 383 | 1.259374 | 9.999343 | o | 51 |
| | 10 | 8.740352 | 382 | 219.2 | 8.741009 | 384 | 1.258991 | 9.999342 | 50 | |
| | 20 | 8.740734 | 381 | 219.6 | 8.741393 | 383 | 1.258607 | 9.999341 | 40 | |
| | 30 | 8.741115 | 382 | 220.0 | 8.741776 | 382 | 1.258224 | 9.999340 | 30 | |
| | 40 | 8.741497 | 381 | 220.3 | 8.742158 | 382 | 1.257842 | 9.999339 | 20 | |
| | 50 | 8.741878 | 381 | 220.7 | 8.742540 | 382 | 1.257460 | 9.999338 | 10 | |
| 10 | o | 8.742259 | 381 | 221.1 | 8.742922 | 382 | 1.257078 | 9.999336 | o | 50 |
| | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 10 | o | 8.742259 | 380 | 221.1 | 8.742922 | 382 | 1.257078 | 9.999336 | o | 50 |
| | 10 | 8.742639 | 380 | 221.5 | 8.743304 | 381 | 1.256696 | 9.999335 | 50 | |
| | 20 | 8.743019 | 380 | 221.9 | 8.743685 | 381 | 1.256315 | 9.999334 | 40 | |
| | 30 | 8.743399 | 379 | 222.3 | 8.744066 | 381 | 1.255934 | 9.999333 | 30 | |
| | 40 | 8.743778 | 379 | 222.7 | 8.744447 | 380 | 1.255553 | 9.999332 | 20 | |
| | 50 | 8.744157 | 379 | 223.1 | 8.744827 | 380 | 1.255173 | 9.999331 | 10 | |
| 11 | o | 8.744536 | 378 | 223.5 | 8.745207 | 379 | 1.254793 | 9.999329 | o | 49 |
| | 10 | 8.744914 | 379 | 223.8 | 8.745586 | 380 | 1.254414 | 9.999328 | 50 | |
| | 20 | 8.745293 | 378 | 224.2 | 8.745966 | 378 | 1.254034 | 9.999327 | 40 | |
| | 30 | 8.745670 | 377 | 224.6 | 8.746344 | 379 | 1.253656 | 9.999326 | 30 | |
| | 40 | 8.746048 | 378 | 225.0 | 8.746723 | 378 | 1.253277 | 9.999325 | 20 | |
| | 50 | 8.746425 | 377 | 225.4 | 8.747101 | 378 | 1.252899 | 9.999323 | 10 | |
| 12 | o | 8.746802 | 376 | 225.8 | 8.747479 | 378 | 1.252521 | 9.999322 | o | 48 |
| | 10 | 8.747178 | 376 | 226.2 | 8.747857 | 377 | 1.252143 | 9.999321 | 50 | |
| | 20 | 8.747554 | 375 | 226.6 | 8.748234 | 377 | 1.251766 | 9.999320 | 40 | |
| | 30 | 8.747930 | 375 | 227.0 | 8.748611 | 377 | 1.251389 | 9.999319 | 30 | |
| | 40 | 8.748305 | 375 | 227.4 | 8.748988 | 377 | 1.251012 | 9.999318 | 20 | |
| | 50 | 8.748680 | 375 | 227.8 | 8.749364 | 376 | 1.250636 | 9.999316 | 10 | |
| 13 | o | 8.749055 | 375 | 228.2 | 8.749740 | 376 | 1.250260 | 9.999315 | o | 47 |
| | 10 | 8.749430 | 374 | 228.6 | 8.750116 | 375 | 1.249884 | 9.999314 | 50 | |
| | 20 | 8.749804 | 374 | 229.0 | 8.750491 | 375 | 1.249509 | 9.999313 | 40 | |
| | 30 | 8.750178 | 373 | 229.3 | 8.750866 | 375 | 1.249134 | 9.999312 | 30 | |
| | 40 | 8.750551 | 373 | 229.7 | 8.751241 | 375 | 1.248759 | 9.999310 | 20 | |
| | 50 | 8.750924 | 373 | 230.1 | 8.751615 | 374 | 1.248385 | 9.999309 | 10 | |
| 14 | o | 8.751297 | 373 | 230.5 | 8.751989 | 374 | 1.248011 | 9.999308 | o | 46 |
| | 10 | 8.751670 | 372 | 230.9 | 8.752363 | 373 | 1.247637 | 9.999307 | 50 | |
| | 20 | 8.752042 | 372 | 231.3 | 8.752736 | 373 | 1.247264 | 9.999306 | 40 | |
| | 30 | 8.752414 | 372 | 231.7 | 8.753109 | 373 | 1.246891 | 9.999305 | 30 | |
| | 40 | 8.752786 | 371 | 232.1 | 8.753482 | 373 | 1.246518 | 9.999303 | 20 | |
| | 50 | 8.753157 | 371 | 232.5 | 8.753855 | 372 | 1.246145 | 9.999302 | 10 | |
| 15 | o | 8.753528 | 370 | 232.9 | 8.754227 | 372 | 1.245773 | 9.999301 | o | 45 |
| | 10 | 8.753898 | 371 | 233.3 | 8.754599 | 371 | 1.245401 | 9.999300 | 50 | |
| | 20 | 8.754269 | 370 | 233.7 | 8.754970 | 371 | 1.245030 | 9.999299 | 40 | |
| | 30 | 8.754639 | 369 | 234.1 | 8.755341 | 371 | 1.244659 | 9.999297 | 30 | |
| | 40 | 8.755008 | 370 | 234.5 | 8.755712 | 371 | 1.244288 | 9.999296 | 20 | |
| | 50 | 8.755378 | 369 | 234.9 | 8.756083 | 370 | 1.243917 | 9.999295 | 10 | |
| 16 | o | 8.755747 | 369 | 235.3 | 8.756453 | 370 | 1.243547 | 9.999294 | o | 44 |
| | 10 | 8.756116 | 368 | 235.7 | 8.756823 | 370 | 1.243177 | 9.999293 | 50 | |
| | 20 | 8.756484 | 368 | 236.1 | 8.757193 | 369 | 1.242807 | 9.999291 | 40 | |
| | 30 | 8.756852 | 368 | 236.5 | 8.757562 | 369 | 1.242438 | 9.999290 | 30 | |
| | 40 | 8.757220 | 367 | 236.9 | 8.757931 | 369 | 1.242069 | 9.999288 | 20 | |
| | 50 | 8.757587 | 368 | 237.3 | 8.758300 | 368 | 1.241700 | 9.999287 | 10 | |
| 17 | o | 8.757955 | 366 | 237.7 | 8.758668 | 368 | 1.241332 | 9.999287 | o | 43 |
| | 10 | 8.758321 | 367 | 238.1 | 8.759036 | 368 | 1.240964 | 9.999285 | 50 | |
| | 20 | 8.758688 | 366 | 238.5 | 8.759404 | 367 | 1.240596 | 9.999284 | 40 | |
| | 30 | 8.759054 | 366 | 238.9 | 8.759771 | 368 | 1.240229 | 9.999283 | 30 | |
| | 40 | 8.759420 | 366 | 239.3 | 8.760139 | 366 | 1.239861 | 9.999282 | 20 | |
| | 50 | 8.759786 | 365 | 239.7 | 8.760505 | 367 | 1.239495 | 9.999281 | 10 | |
| 18 | o | 8.760151 | 365 | 240.1 | 8.760872 | 366 | 1.239128 | 9.999280 | o | 42 |
| | 10 | 8.760516 | 365 | 240.5 | 8.761238 | 366 | 1.238761 | 9.999279 | 50 | |
| | 20 | 8.760881 | 364 | 240.9 | 8.761604 | 366 | 1.238396 | 9.999277 | 40 | |
| | 30 | 8.761245 | 364 | 241.4 | 8.761970 | 365 | 1.238030 | 9.999276 | 30 | |
| | 40 | 8.761609 | 364 | 241.8 | 8.762335 | 365 | 1.237665 | 9.999274 | 20 | |
| | 50 | 8.761973 | 364 | 242.2 | 8.762700 | 365 | 1.237300 | 9.999273 | 10 | |
| 19 | o | 8.762337 | 363 | 242.6 | 8.763065 | 364 | 1.236935 | 9.999272 | o | 41 |
| | 10 | 8.762700 | 363 | 243.0 | 8.763429 | 364 | 1.236571 | 9.999271 | 50 | |
| | 20 | 8.763063 | 362 | 243.4 | 8.763793 | 364 | 1.236207 | 9.999270 | 40 | |
| | 30 | 8.763425 | 362 | 243.8 | 8.764157 | 363 | 1.235843 | 9.999268 | 30 | |
| | 40 | 8.763787 | 362 | 244.2 | 8.764520 | 363 | 1.235480 | 9.999267 | 20 | |
| | 50 | 8.764149 | 362 | 244.6 | 8.764884 | 364 | 1.235116 | 9.999266 | 10 | |
| 20 | o | 8.764511 | 362 | 245.0 | 8.765246 | 362 | 1.234754 | 9.999265 | o | 40 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| | | Sin | d. | b. | Tang | d. c. | Cotg | Cos | | |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 20 | o | 8.764511 | 361 | 245.0 | 8.765246 | 363 | 1.234754 | 9.999265 | o | 40 |
| | 10 | 8.764872 | 362 | 245.4 | 8.765609 | 362 | 1.234391 | 9.999263 | 50 | |
| | 20 | 8.765234 | 360 | 245.8 | 8.765971 | 362 | 1.234029 | 9.999262 | 40 | |
| | 30 | 8.765594 | 361 | 246.2 | 8.766333 | 362 | 1.233667 | 9.999261 | 30 | |
| | 40 | 8.765955 | 360 | 246.7 | 8.766695 | 361 | 1.233305 | 9.999260 | 20 | |
| | 50 | 8.766315 | 360 | 247.1 | 8.767056 | 361 | 1.232944 | 9.999258 | 10 | |
| 21 | o | 8.766675 | 359 | 247.5 | 8.767417 | 361 | 1.232583 | 9.999257 | o | 39 |
| | 10 | 8.767034 | 360 | 247.9 | 8.767778 | 361 | 1.232222 | 9.999256 | 50 | |
| | 20 | 8.767394 | 358 | 248.3 | 8.768139 | 360 | 1.231861 | 9.999255 | 40 | |
| | 30 | 8.767752 | 359 | 248.7 | 8.768499 | 360 | 1.231501 | 9.999254 | 30 | |
| | 40 | 8.768111 | 358 | 249.1 | 8.768859 | 359 | 1.231141 | 9.999252 | 20 | |
| | 50 | 8.768469 | 359 | 249.5 | 8.769218 | 360 | 1.230782 | 9.999251 | 10 | |
| 22 | o | 8.768828 | 357 | 249.9 | 8.769578 | 359 | 1.230422 | 9.999250 | o | 38 |
| | 10 | 8.769185 | 358 | 250.4 | 8.769937 | 358 | 1.230063 | 9.999249 | 50 | |
| | 20 | 8.769543 | 357 | 250.8 | 8.770295 | 358 | 1.229705 | 9.999247 | 40 | |
| | 30 | 8.769900 | 357 | 251.2 | 8.770654 | 359 | 1.229346 | 9.999246 | 30 | |
| | 40 | 8.770257 | 356 | 251.6 | 8.771012 | 358 | 1.228988 | 9.999245 | 20 | |
| | 50 | 8.770613 | 357 | 252.0 | 8.771370 | 357 | 1.228630 | 9.999244 | 10 | |
| 23 | o | 8.770970 | 356 | 252.4 | 8.771728 | 358 | 1.228273 | 9.999242 | o | 37 |
| | 10 | 8.771326 | 355 | 252.8 | 8.772085 | 357 | 1.227915 | 9.999241 | 50 | |
| | 20 | 8.771681 | 356 | 253.3 | 8.772442 | 356 | 1.227558 | 9.999240 | 40 | |
| | 30 | 8.772037 | 355 | 253.7 | 8.772798 | 357 | 1.227202 | 9.999239 | 30 | |
| | 40 | 8.772392 | 355 | 254.1 | 8.773155 | 356 | 1.226845 | 9.999237 | 20 | |
| | 50 | 8.772747 | 354 | 254.5 | 8.773511 | 355 | 1.226489 | 9.999236 | 10 | |
| 24 | o | 8.773101 | 355 | 254.9 | 8.773866 | 355 | 1.226134 | 9.999235 | o | 36 |
| | 10 | 8.773456 | 354 | 255.3 | 8.774222 | 355 | 1.225778 | 9.999234 | 50 | |
| | 20 | 8.773810 | 353 | 255.7 | 8.774577 | 355 | 1.225423 | 9.999232 | 40 | |
| | 30 | 8.774163 | 354 | 256.2 | 8.774932 | 355 | 1.225068 | 9.999231 | 30 | |
| | 40 | 8.774517 | 353 | 256.6 | 8.775287 | 355 | 1.224713 | 9.999230 | 20 | |
| | 50 | 8.774870 | 353 | 257.0 | 8.775641 | 354 | 1.224359 | 9.999229 | 10 | |
| 25 | o | 8.775223 | 352 | 257.4 | 8.775995 | 354 | 1.224005 | 9.999227 | o | 35 |
| | 10 | 8.775575 | 352 | 257.8 | 8.776349 | 353 | 1.223651 | 9.999226 | 50 | |
| | 20 | 8.775927 | 352 | 258.3 | 8.776702 | 354 | 1.223298 | 9.999225 | 40 | |
| | 30 | 8.776279 | 352 | 258.7 | 8.777056 | 353 | 1.222944 | 9.999224 | 30 | |
| | 40 | 8.776631 | 351 | 259.1 | 8.777409 | 352 | 1.222591 | 9.999222 | 20 | |
| | 50 | 8.776982 | 351 | 259.5 | 8.777761 | 353 | 1.222239 | 9.999221 | 10 | |
| 26 | o | 8.777333 | 351 | 259.9 | 8.778114 | 352 | 1.221886 | 9.999220 | o | 34 |
| | 10 | 8.777684 | 351 | 260.4 | 8.778466 | 351 | 1.221534 | 9.999219 | 50 | |
| | 20 | 8.778035 | 350 | 260.8 | 8.778817 | 352 | 1.221183 | 9.999217 | 40 | |
| | 30 | 8.778385 | 350 | 261.2 | 8.779169 | 351 | 1.220831 | 9.999216 | 30 | |
| | 40 | 8.778735 | 350 | 261.6 | 8.779520 | 351 | 1.220480 | 9.999215 | 20 | |
| | 50 | 8.779085 | 349 | 262.0 | 8.779871 | 351 | 1.220129 | 9.999213 | 10 | |
| 27 | o | 8.779434 | 349 | 262.5 | 8.780222 | 350 | 1.219778 | 9.999212 | o | 33 |
| | 10 | 8.779783 | 349 | 262.9 | 8.780572 | 350 | 1.219428 | 9.999211 | 50 | |
| | 20 | 8.780132 | 348 | 263.3 | 8.780922 | 350 | 1.219078 | 9.999210 | 40 | |
| | 30 | 8.780480 | 348 | 263.7 | 8.781272 | 350 | 1.218728 | 9.999208 | 30 | |
| | 40 | 8.780829 | 349 | 264.2 | 8.781622 | 349 | 1.218378 | 9.999207 | 20 | |
| | 50 | 8.781177 | 347 | 264.6 | 8.781971 | 349 | 1.218029 | 9.999206 | 10 | |
| 28 | o | 8.781524 | 348 | 265.0 | 8.782320 | 349 | 1.217680 | 9.999205 | o | 32 |
| | 10 | 8.781872 | 347 | 265.5 | 8.782669 | 348 | 1.217331 | 9.999203 | 50 | |
| | 20 | 8.782219 | 347 | 266.0 | 8.783017 | 348 | 1.216983 | 9.999202 | 40 | |
| | 30 | 8.782566 | 346 | 266.3 | 8.783365 | 348 | 1.216635 | 9.999201 | 30 | |
| | 40 | 8.782912 | 347 | 266.7 | 8.783713 | 348 | 1.216287 | 9.999199 | 20 | |
| | 50 | 8.783259 | 346 | 267.1 | 8.784061 | 347 | 1.215939 | 9.999198 | 10 | |
| 29 | o | 8.783605 | 345 | 267.6 | 8.784408 | 347 | 1.215592 | 9.999197 | o | 31 |
| | 10 | 8.783951 | 346 | 268.0 | 8.784755 | 347 | 1.215245 | 9.999196 | 50 | |
| | 20 | 8.784296 | 345 | 268.4 | 8.785102 | 346 | 1.214898 | 9.999194 | 40 | |
| | 30 | 8.784641 | 345 | 268.8 | 8.785448 | 346 | 1.214552 | 9.999193 | 30 | |
| | 40 | 8.784986 | 345 | 269.3 | 8.785794 | 346 | 1.214206 | 9.999192 | 20 | |
| | 50 | 8.785331 | 344 | 269.7 | 8.786140 | 346 | 1.213860 | 9.999190 | 10 | |
| 30 | o | 8.785675 | 344 | 270.1 | 8.786486 | 346 | 1.213514 | 9.999189 | o | 30 |
| | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 30 | o | 8.785675 | 344 | 270.1 | 8.786486 | 345 | 1.213514 | 9.999189 | o | 30 |
| | 10 | 8.786019 | 344 | 270.6 | 8.786831 | 346 | 1.213169 | 9.999188 | 50 | |
| | 20 | 8.786363 | 344 | 271.0 | 8.787177 | 346 | 1.212823 | 9.999187 | 40 | |
| | 30 | 8.786707 | 343 | 271.4 | 8.787521 | 344 | 1.212479 | 9.999185 | 30 | |
| | 40 | 8.787050 | 343 | 271.9 | 8.787866 | 345 | 1.212134 | 9.999184 | 20 | |
| | 50 | 8.787393 | 343 | 272.3 | 8.788210 | 344 | 1.211790 | 9.999183 | 10 | |
| 31 | o | 8.787736 | 342 | 272.7 | 8.788554 | 344 | 1.211446 | 9.999181 | o | 29 |
| | 10 | 8.788078 | 343 | 273.1 | 8.788898 | 344 | 1.211102 | 9.999180 | 50 | |
| | 20 | 8.788421 | 341 | 273.6 | 8.789242 | 344 | 1.210758 | 9.999179 | 40 | |
| | 30 | 8.788762 | 342 | 274.0 | 8.789585 | 343 | 1.210415 | 9.999178 | 30 | |
| | 40 | 8.789104 | 342 | 274.4 | 8.789928 | 343 | 1.210072 | 9.999176 | 20 | |
| | 50 | 8.789446 | 341 | 274.9 | 8.790271 | 343 | 1.209729 | 9.999175 | 10 | |
| 32 | o | 8.789787 | 341 | 275.3 | 8.790613 | 342 | 1.209387 | 9.999174 | o | 28 |
| | 10 | 8.790128 | 340 | 275.7 | 8.790955 | 342 | 1.209045 | 9.999172 | 50 | |
| | 20 | 8.790468 | 340 | 276.2 | 8.791297 | 342 | 1.208703 | 9.999171 | 40 | |
| | 30 | 8.790808 | 341 | 276.6 | 8.791639 | 341 | 1.208361 | 9.999170 | 30 | |
| | 40 | 8.791149 | 339 | 277.0 | 8.791980 | 341 | 1.208020 | 9.999168 | 20 | |
| | 50 | 8.791488 | 340 | 277.5 | 8.792321 | 341 | 1.207679 | 9.999167 | 10 | |
| 33 | o | 8.791828 | 339 | 277.9 | 8.792662 | 341 | 1.207338 | 9.999166 | o | 27 |
| | 10 | 8.792167 | 339 | 278.3 | 8.793003 | 340 | 1.206997 | 9.999165 | 50 | |
| | 20 | 8.792506 | 339 | 278.8 | 8.793343 | 340 | 1.206657 | 9.999163 | 40 | |
| | 30 | 8.792845 | 338 | 279.2 | 8.793683 | 340 | 1.206317 | 9.999162 | 30 | |
| | 40 | 8.793183 | 338 | 279.6 | 8.794023 | 340 | 1.205977 | 9.999161 | 20 | |
| | 50 | 8.793521 | 338 | 280.1 | 8.794362 | 339 | 1.205638 | 9.999159 | 10 | |
| 34 | o | 8.793859 | 338 | 280.5 | 8.794701 | 339 | 1.205299 | 9.999158 | o | 26 |
| | 10 | 8.794197 | 337 | 281.0 | 8.795040 | 339 | 1.204960 | 9.999157 | 50 | |
| | 20 | 8.794534 | 338 | 281.4 | 8.795379 | 339 | 1.204621 | 9.999155 | 40 | |
| | 30 | 8.794872 | 336 | 281.8 | 8.795718 | 338 | 1.204282 | 9.999154 | 30 | |
| | 40 | 8.795208 | 337 | 282.3 | 8.796056 | 338 | 1.203944 | 9.999153 | 20 | |
| | 50 | 8.795545 | 336 | 282.7 | 8.796394 | 337 | 1.203606 | 9.999151 | 10 | |
| 35 | o | 8.795881 | 337 | 283.2 | 8.796731 | 338 | 1.203269 | 9.999150 | o | 25 |
| | 10 | 8.796218 | 335 | 283.6 | 8.797069 | 337 | 1.202931 | 9.999149 | 50 | |
| | 20 | 8.796553 | 336 | 284.0 | 8.797406 | 337 | 1.202594 | 9.999147 | 40 | |
| | 30 | 8.796889 | 335 | 284.5 | 8.797743 | 336 | 1.202257 | 9.999146 | 30 | |
| | 40 | 8.797224 | 335 | 284.9 | 8.798079 | 337 | 1.201921 | 9.999145 | 20 | |
| | 50 | 8.797559 | 335 | 285.4 | 8.798416 | 336 | 1.201584 | 9.999143 | 10 | |
| 36 | o | 8.797894 | 335 | 285.8 | 8.798752 | 336 | 1.201248 | 9.999142 | o | 24 |
| | 10 | 8.798229 | 334 | 286.2 | 8.799088 | 335 | 1.200912 | 9.999141 | 50 | |
| | 20 | 8.798563 | 334 | 286.7 | 8.799423 | 336 | 1.200577 | 9.999140 | 40 | |
| | 30 | 8.798897 | 334 | 287.1 | 8.799759 | 335 | 1.200241 | 9.999138 | 30 | |
| | 40 | 8.799231 | 333 | 287.6 | 8.800094 | 335 | 1.199906 | 9.999137 | 20 | |
| | 50 | 8.799564 | 333 | 288.0 | 8.800429 | 334 | 1.199571 | 9.999136 | 10 | |
| 37 | o | 8.799897 | 333 | 288.4 | 8.800763 | 335 | 1.199237 | 9.999134 | o | 23 |
| | 10 | 8.800230 | 333 | 288.9 | 8.801098 | 334 | 1.198902 | 9.999133 | 50 | |
| | 20 | 8.800563 | 333 | 289.3 | 8.801432 | 333 | 1.198568 | 9.999132 | 40 | |
| | 30 | 8.800896 | 332 | 289.8 | 8.801765 | 334 | 1.198235 | 9.999130 | 30 | |
| | 40 | 8.801228 | 332 | 290.2 | 8.802099 | 333 | 1.197901 | 9.999129 | 20 | |
| | 50 | 8.801560 | 332 | 290.7 | 8.802432 | 333 | 1.197568 | 9.999128 | 10 | |
| 38 | o | 8.801892 | 331 | 291.1 | 8.802765 | 333 | 1.197235 | 9.999126 | o | 22 |
| | 10 | 8.802223 | 331 | 291.6 | 8.803098 | 333 | 1.196902 | 9.999125 | 50 | |
| | 20 | 8.802554 | 331 | 292.0 | 8.803431 | 332 | 1.196569 | 9.999124 | 40 | |
| | 30 | 8.802885 | 331 | 292.4 | 8.803763 | 332 | 1.196237 | 9.999122 | 30 | |
| | 40 | 8.803216 | 330 | 292.9 | 8.804095 | 332 | 1.195905 | 9.999121 | 20 | |
| | 50 | 8.803546 | 330 | 293.3 | 8.804427 | 331 | 1.195573 | 9.999120 | 10 | |
| 39 | o | 8.803876 | 330 | 293.8 | 8.804758 | 332 | 1.195242 | 9.999118 | o | 21 |
| | 10 | 8.804206 | 330 | 294.2 | 8.805090 | 331 | 1.194910 | 9.999117 | 50 | |
| | 20 | 8.804536 | 330 | 294.7 | 8.805421 | 330 | 1.194579 | 9.999115 | 40 | |
| | 30 | 8.804866 | 329 | 295.1 | 8.805751 | 331 | 1.194249 | 9.999114 | 30 | |
| | 40 | 8.805195 | 329 | 295.6 | 8.806082 | 330 | 1.193918 | 9.999113 | 20 | |
| | 50 | 8.805524 | 328 | 296.0 | 8.806412 | 330 | 1.193588 | 9.999111 | 10 | |
| 40 | o | 8.805852 | | 296.5 | 8.806742 | | 1.193258 | 9.999110 | o | 20 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-------|----------|----------|-------|----------|----------|----|----|
| 40 | o | 8.805852 | 329 | 296.5 | 8.806742 | 330 | 1.193258 | 9.999110 | o | 20 |
| | 10 | 8.806181 | 328 | 296.9 | 8.807072 | 330 | 1.192928 | 9.999109 | 50 | |
| | 20 | 8.806509 | 328 | 297.4 | 8.807402 | 329 | 1.192598 | 9.999107 | 40 | |
| | 30 | 8.806837 | 328 | 297.8 | 8.807731 | 329 | 1.192269 | 9.999106 | 30 | |
| | 40 | 8.807165 | 327 | 298.3 | 8.808060 | 329 | 1.191940 | 9.999105 | 20 | |
| | 50 | 8.807492 | 327 | 298.7 | 8.808389 | 328 | 1.191611 | 9.999103 | 10 | |
| 41 | o | 8.807819 | 327 | 299.2 | 8.808717 | 329 | 1.191283 | 9.999102 | o | 19 |
| | 10 | 8.808146 | 327 | 299.6 | 8.809046 | 328 | 1.190954 | 9.999101 | 50 | |
| | 20 | 8.808473 | 326 | 300.1 | 8.809374 | 328 | 1.190626 | 9.999099 | 40 | |
| | 30 | 8.808799 | 327 | 300.5 | 8.809701 | 328 | 1.190299 | 9.999098 | 30 | |
| | 40 | 8.809126 | 325 | 301.0 | 8.810029 | 327 | 1.189971 | 9.999097 | 20 | |
| | 50 | 8.809451 | 326 | 301.4 | 8.810356 | 327 | 1.189644 | 9.999095 | 10 | |
| 42 | o | 8.809777 | 326 | 301.9 | 8.810683 | 327 | 1.189317 | 9.999094 | o | 18 |
| | 10 | 8.810103 | 325 | 302.3 | 8.811010 | 327 | 1.188990 | 9.999092 | 50 | |
| | 20 | 8.810428 | 325 | 302.8 | 8.811337 | 326 | 1.188663 | 9.999091 | 40 | |
| | 30 | 8.810753 | 325 | 303.3 | 8.811663 | 326 | 1.188337 | 9.999090 | 30 | |
| | 40 | 8.811078 | 324 | 303.7 | 8.811989 | 326 | 1.188011 | 9.999088 | 20 | |
| | 50 | 8.811402 | 324 | 304.2 | 8.812315 | 326 | 1.187685 | 9.999087 | 10 | |
| 43 | o | 8.811726 | 324 | 304.6 | 8.812641 | 325 | 1.187359 | 9.999086 | o | 17 |
| | 10 | 8.812050 | 324 | 305.1 | 8.812966 | 325 | 1.187034 | 9.999084 | 50 | |
| | 20 | 8.812374 | 324 | 305.5 | 8.813291 | 325 | 1.186709 | 9.999083 | 40 | |
| | 30 | 8.812698 | 323 | 306.0 | 8.813616 | 325 | 1.186384 | 9.999082 | 30 | |
| | 40 | 8.813021 | 323 | 306.4 | 8.813941 | 324 | 1.186059 | 9.999080 | 20 | |
| | 50 | 8.813344 | 323 | 306.9 | 8.814265 | 324 | 1.185735 | 9.999079 | 10 | |
| 44 | o | 8.813667 | 322 | 307.4 | 8.814589 | 324 | 1.185411 | 9.999077 | o | 16 |
| | 10 | 8.813989 | 323 | 307.8 | 8.814913 | 324 | 1.185087 | 9.999076 | 50 | |
| | 20 | 8.814312 | 322 | 308.3 | 8.815237 | 324 | 1.184763 | 9.999075 | 40 | |
| | 30 | 8.814634 | 322 | 308.7 | 8.815560 | 323 | 1.184440 | 9.999073 | 30 | |
| | 40 | 8.814956 | 321 | 309.2 | 8.815884 | 324 | 1.184116 | 9.999072 | 20 | |
| | 50 | 8.815277 | 322 | 309.6 | 8.816207 | 322 | 1.183793 | 9.999071 | 10 | |
| 45 | o | 8.815599 | 321 | 310.1 | 8.816529 | 323 | 1.183471 | 9.999069 | o | 15 |
| | 10 | 8.815920 | 321 | 310.6 | 8.816852 | 322 | 1.183148 | 9.999068 | 50 | |
| | 20 | 8.816241 | 320 | 311.0 | 8.817174 | 322 | 1.182826 | 9.999066 | 40 | |
| | 30 | 8.816561 | 321 | 311.5 | 8.817496 | 322 | 1.182504 | 9.999065 | 30 | |
| | 40 | 8.816882 | 320 | 311.9 | 8.817818 | 322 | 1.182182 | 9.999064 | 20 | |
| | 50 | 8.817202 | 320 | 312.4 | 8.818140 | 321 | 1.181860 | 9.999062 | 10 | |
| 46 | o | 8.817522 | 319 | 312.9 | 8.818461 | 321 | 1.181539 | 9.999061 | o | 14 |
| | 10 | 8.817841 | 320 | 313.3 | 8.818782 | 321 | 1.181217 | 9.999060 | 50 | |
| | 20 | 8.818161 | 319 | 313.8 | 8.819103 | 320 | 1.180897 | 9.999058 | 40 | |
| | 30 | 8.818480 | 319 | 314.3 | 8.819423 | 321 | 1.180577 | 9.999057 | 30 | |
| | 40 | 8.818799 | 319 | 314.7 | 8.819744 | 320 | 1.180256 | 9.999055 | 20 | |
| | 50 | 8.819118 | 318 | 315.2 | 8.820064 | 320 | 1.179936 | 9.999054 | 10 | |
| 47 | o | 8.819436 | 319 | 315.6 | 8.820384 | 319 | 1.179615 | 9.999053 | o | 13 |
| | 10 | 8.819755 | 318 | 316.1 | 8.820703 | 320 | 1.179294 | 9.999052 | 50 | |
| | 20 | 8.820073 | 317 | 316.6 | 8.821023 | 319 | 1.178977 | 9.999050 | 40 | |
| | 30 | 8.820390 | 318 | 317.0 | 8.821342 | 319 | 1.178658 | 9.999048 | 30 | |
| | 40 | 8.820708 | 317 | 317.5 | 8.821661 | 319 | 1.178339 | 9.999047 | 20 | |
| | 50 | 8.821025 | 318 | 318.0 | 8.821980 | 318 | 1.178020 | 9.999046 | 10 | |
| 48 | o | 8.821343 | 316 | 318.4 | 8.822298 | 319 | 1.177702 | 9.999044 | o | 12 |
| | 10 | 8.821659 | 317 | 318.9 | 8.822617 | 318 | 1.177383 | 9.999043 | 50 | |
| | 20 | 8.821976 | 316 | 319.4 | 8.822935 | 318 | 1.177065 | 9.999041 | 40 | |
| | 30 | 8.822292 | 317 | 319.8 | 8.823253 | 317 | 1.176747 | 9.999040 | 30 | |
| | 40 | 8.822609 | 316 | 320.3 | 8.823570 | 318 | 1.176430 | 9.999039 | 20 | |
| | 50 | 8.822925 | 315 | 320.8 | 8.823888 | 318 | 1.176112 | 9.999037 | 10 | |
| 49 | o | 8.823240 | 316 | 321.3 | 8.824205 | 317 | 1.175795 | 9.999036 | o | 11 |
| | 10 | 8.823556 | 315 | 321.7 | 8.824522 | 317 | 1.175478 | 9.999035 | 50 | |
| | 20 | 8.823871 | 315 | 322.2 | 8.824838 | 316 | 1.175162 | 9.999033 | 40 | |
| | 30 | 8.824186 | 315 | 322.6 | 8.825155 | 316 | 1.174845 | 9.999032 | 30 | |
| | 40 | 8.824501 | 315 | 323.1 | 8.825471 | 316 | 1.174529 | 9.999030 | 20 | |
| | 50 | 8.824816 | 314 | 323.6 | 8.825787 | 316 | 1.174213 | 9.999029 | 10 | |
| 50 | o | 8.825130 | 324.0 | 8.826103 | | | 1.173897 | 9.999027 | o | 10 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| | | Sin | d. | b. | Tang | d. c. | Cotg | Cos | | |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 50 | o | 8.825130 | 314 | 324.0 | 8.826103 | 315 | 1.173897 | 9.999027 | o | 10 |
| | 10 | 8.825444 | 314 | 324.5 | 8.826418 | 315 | 1.173582 | 9.999026 | 50 | |
| | 20 | 8.825758 | 314 | 325.0 | 8.826733 | 316 | 1.173267 | 9.999024 | 40 | |
| | 30 | 8.826072 | 313 | 325.5 | 8.827049 | 316 | 1.172951 | 9.999023 | 30 | |
| | 40 | 8.826385 | 313 | 325.9 | 8.827363 | 314 | 1.172637 | 9.999022 | 20 | |
| | 50 | 8.826698 | 313 | 326.4 | 8.827678 | 315 | 1.172322 | 9.999020 | 10 | |
| 51 | o | 8.827011 | 313 | 326.9 | 8.827992 | 314 | 1.172008 | 9.999019 | o | 9 |
| | 10 | 8.827324 | 313 | 327.3 | 8.828307 | 315 | 1.171693 | 9.999017 | 50 | |
| | 20 | 8.827637 | 312 | 327.8 | 8.828621 | 314 | 1.171379 | 9.999016 | 40 | |
| | 30 | 8.827949 | 312 | 328.3 | 8.828934 | 313 | 1.171066 | 9.999015 | 30 | |
| | 40 | 8.828261 | 312 | 328.8 | 8.829248 | 314 | 1.170752 | 9.999013 | 20 | |
| | 50 | 8.828573 | 311 | 329.2 | 8.829561 | 313 | 1.170439 | 9.999012 | 10 | |
| 52 | o | 8.828884 | 312 | 329.7 | 8.829874 | 313 | 1.170126 | 9.999010 | o | 8 |
| | 10 | 8.829196 | 311 | 330.2 | 8.830187 | 313 | 1.169813 | 9.999009 | 50 | |
| | 20 | 8.829507 | 311 | 330.7 | 8.830500 | 312 | 1.169500 | 9.999007 | 40 | |
| | 30 | 8.829818 | 311 | 331.1 | 8.830812 | 312 | 1.169188 | 9.999006 | 30 | |
| | 40 | 8.830129 | 310 | 331.6 | 8.831124 | 312 | 1.168876 | 9.999005 | 20 | |
| | 50 | 8.830439 | 310 | 332.1 | 8.831436 | 312 | 1.168564 | 9.999003 | 10 | |
| 53 | o | 8.830749 | 311 | 332.6 | 8.831748 | 311 | 1.168252 | 9.999002 | o | 7 |
| | 10 | 8.831060 | 309 | 333.0 | 8.832059 | 312 | 1.167941 | 9.999000 | 50 | |
| | 20 | 8.831369 | 310 | 333.5 | 8.832371 | 311 | 1.167629 | 9.998999 | 40 | |
| | 30 | 8.831679 | 309 | 334.0 | 8.832682 | 310 | 1.167318 | 9.998997 | 30 | |
| | 40 | 8.831988 | 310 | 334.5 | 8.832992 | 311 | 1.167008 | 9.998996 | 20 | |
| | 50 | 8.832298 | 309 | 334.9 | 8.833303 | 310 | 1.166697 | 9.998995 | 10 | |
| 54 | o | 8.832607 | 308 | 335.4 | 8.833613 | 311 | 1.166387 | 9.998993 | o | 6 |
| | 10 | 8.832915 | 309 | 335.9 | 8.833924 | 310 | 1.166076 | 9.998992 | 50 | |
| | 20 | 8.833224 | 308 | 336.4 | 8.834234 | 309 | 1.165766 | 9.998990 | 40 | |
| | 30 | 8.833532 | 308 | 336.9 | 8.834543 | 310 | 1.165457 | 9.998989 | 30 | |
| | 40 | 8.833840 | 308 | 337.3 | 8.834853 | 309 | 1.165147 | 9.998987 | 20 | |
| | 50 | 8.834148 | 308 | 337.8 | 8.835162 | 309 | 1.164838 | 9.998986 | 10 | |
| 55 | o | 8.834456 | 307 | 338.3 | 8.835471 | 309 | 1.164529 | 9.998984 | o | 5 |
| | 10 | 8.834763 | 307 | 338.8 | 8.835780 | 309 | 1.164220 | 9.998983 | 50 | |
| | 20 | 8.835070 | 307 | 339.3 | 8.836089 | 308 | 1.163911 | 9.998982 | 40 | |
| | 30 | 8.835377 | 307 | 339.7 | 8.836397 | 308 | 1.163603 | 9.998980 | 30 | |
| | 40 | 8.835684 | 307 | 340.2 | 8.836705 | 308 | 1.163295 | 9.998979 | 20 | |
| | 50 | 8.835991 | 306 | 340.7 | 8.837013 | 308 | 1.162987 | 9.998977 | 10 | |
| 56 | o | 8.836297 | 306 | 341.2 | 8.837321 | 308 | 1.162679 | 9.998976 | o | 4 |
| | 10 | 8.836603 | 306 | 341.7 | 8.837629 | 307 | 1.162371 | 9.998974 | 50 | |
| | 20 | 8.836909 | 306 | 342.1 | 8.837936 | 307 | 1.162064 | 9.998973 | 40 | |
| | 30 | 8.837215 | 305 | 342.6 | 8.838243 | 307 | 1.161757 | 9.998971 | 30 | |
| | 40 | 8.837520 | 305 | 343.1 | 8.838550 | 307 | 1.161450 | 9.998970 | 20 | |
| | 50 | 8.837825 | 305 | 343.6 | 8.838857 | 306 | 1.161143 | 9.998969 | 10 | |
| 57 | o | 8.838130 | 305 | 344.1 | 8.839163 | 307 | 1.160837 | 9.998967 | o | 3 |
| | 10 | 8.838435 | 305 | 344.6 | 8.839470 | 306 | 1.160530 | 9.998966 | 50 | |
| | 20 | 8.838740 | 304 | 345.0 | 8.839776 | 305 | 1.160224 | 9.998964 | 40 | |
| | 30 | 8.839044 | 304 | 345.5 | 8.840081 | 305 | 1.159919 | 9.998963 | 30 | |
| | 40 | 8.839348 | 304 | 346.0 | 8.840387 | 305 | 1.159613 | 9.998961 | 20 | |
| | 50 | 8.839652 | 304 | 346.5 | 8.840692 | 306 | 1.159308 | 9.998960 | 10 | |
| 58 | o | 8.839956 | 304 | 347.0 | 8.840998 | 305 | 1.159002 | 9.998958 | o | 2 |
| | 10 | 8.840260 | 303 | 347.5 | 8.841303 | 304 | 1.158697 | 9.998957 | 50 | |
| | 20 | 8.840563 | 303 | 348.0 | 8.841607 | 305 | 1.158393 | 9.998955 | 40 | |
| | 30 | 8.840866 | 303 | 348.4 | 8.841912 | 304 | 1.158088 | 9.998954 | 30 | |
| | 40 | 8.841169 | 303 | 348.9 | 8.842216 | 305 | 1.157784 | 9.998953 | 20 | |
| | 50 | 8.841472 | 302 | 349.4 | 8.842521 | 304 | 1.157479 | 9.998951 | 10 | |
| 59 | o | 8.841774 | 302 | 349.9 | 8.842825 | 303 | 1.157175 | 9.998950 | o | 1 |
| | 10 | 8.842076 | 302 | 350.4 | 8.843128 | 304 | 1.156872 | 9.998948 | 50 | |
| | 20 | 8.842378 | 302 | 350.9 | 8.843432 | 303 | 1.156568 | 9.998947 | 40 | |
| | 30 | 8.842680 | 302 | 351.4 | 8.843735 | 303 | 1.156265 | 9.998945 | 30 | |
| | 40 | 8.842982 | 301 | 351.9 | 8.844038 | 303 | 1.155962 | 9.998944 | 20 | |
| | 50 | 8.843283 | 302 | 352.4 | 8.844341 | 303 | 1.155659 | 9.998942 | 10 | |
| 60 | o | 8.843585 | 302 | 352.8 | 8.844644 | 303 | 1.155356 | 9.998941 | o | 0 |
| | | | | | | | | | | |
| | | Cos | d. | b. | Cotg | d. c. | Tang | Sin | | |

| | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 0 | 0 | 8.843585 | 301 | 352.8 | 8.844644 | 302 | 1.155356 | 9.998941 | 0 | 60 |
| | 10 | 8.843886 | 300 | 353.3 | 8.844946 | 302 | 1.155054 | 9.998939 | 50 | |
| | 20 | 8.844186 | 301 | 353.8 | 8.845248 | 303 | 1.154752 | 9.998938 | 40 | |
| | 30 | 8.844487 | 300 | 354.3 | 8.845551 | 301 | 1.154449 | 9.998936 | 30 | |
| | 40 | 8.844787 | 300 | 354.8 | 8.845852 | 302 | 1.154148 | 9.998935 | 20 | |
| | 50 | 8.845087 | 300 | 355.3 | 8.846154 | 302 | 1.153846 | 9.998933 | 10 | |
| 1 | 0 | 8.845387 | 300 | 355.8 | 8.846455 | 301 | 1.153545 | 9.998932 | 0 | 59 |
| | 10 | 8.845687 | 300 | 356.3 | 8.846757 | 301 | 1.153243 | 9.998930 | 50 | |
| | 20 | 8.845987 | 299 | 356.8 | 8.847058 | 300 | 1.152942 | 9.998929 | 40 | |
| | 30 | 8.846286 | 299 | 357.3 | 8.847358 | 301 | 1.152642 | 9.998927 | 30 | |
| | 40 | 8.846585 | 299 | 357.8 | 8.847659 | 300 | 1.152341 | 9.998926 | 20 | |
| | 50 | 8.846884 | 299 | 358.3 | 8.847959 | 300 | 1.152041 | 9.998925 | 10 | |
| 2 | 0 | 8.847183 | 298 | 358.7 | 8.848260 | 301 | 1.151740 | 9.998923 | 0 | 58 |
| | 10 | 8.847481 | 299 | 359.2 | 8.848560 | 299 | 1.151440 | 9.998922 | 50 | |
| | 20 | 8.847780 | 298 | 359.7 | 8.848859 | 300 | 1.151141 | 9.998920 | 40 | |
| | 30 | 8.848078 | 298 | 360.2 | 8.849159 | 299 | 1.150841 | 9.998919 | 30 | |
| | 40 | 8.848376 | 297 | 360.7 | 8.849458 | 300 | 1.150542 | 9.998917 | 20 | |
| | 50 | 8.848673 | 298 | 361.2 | 8.849758 | 299 | 1.150242 | 9.998916 | 10 | |
| 3 | 0 | 8.848971 | 297 | 361.7 | 8.850057 | 298 | 1.149943 | 9.998914 | 0 | 57 |
| | 10 | 8.849268 | 297 | 362.2 | 8.850355 | 299 | 1.149645 | 9.998913 | 50 | |
| | 20 | 8.849565 | 297 | 362.7 | 8.850654 | 298 | 1.149346 | 9.998911 | 40 | |
| | 30 | 8.849862 | 297 | 363.2 | 8.850952 | 298 | 1.149048 | 9.998910 | 30 | |
| | 40 | 8.850159 | 296 | 363.7 | 8.851250 | 298 | 1.148750 | 9.998908 | 20 | |
| | 50 | 8.850455 | 296 | 364.2 | 8.851548 | 298 | 1.148452 | 9.998907 | 10 | |
| 4 | 0 | 8.850751 | 296 | 364.7 | 8.851846 | 298 | 1.148154 | 9.998905 | 0 | 56 |
| | 10 | 8.851047 | 296 | 365.2 | 8.852144 | 297 | 1.147856 | 9.998904 | 50 | |
| | 20 | 8.851343 | 296 | 365.7 | 8.852441 | 297 | 1.147559 | 9.998902 | 40 | |
| | 30 | 8.851639 | 295 | 366.2 | 8.852738 | 297 | 1.147262 | 9.998901 | 30 | |
| | 40 | 8.851934 | 295 | 366.7 | 8.853035 | 297 | 1.146965 | 9.998899 | 20 | |
| | 50 | 8.852229 | 296 | 367.2 | 8.853332 | 296 | 1.146668 | 9.998898 | 10 | |
| 5 | 0 | 8.852525 | 294 | 367.7 | 8.853628 | 297 | 1.146372 | 9.998896 | 0 | 55 |
| | 10 | 8.852819 | 295 | 368.2 | 8.853925 | 296 | 1.146075 | 9.998895 | 50 | |
| | 20 | 8.853114 | 294 | 368.7 | 8.854221 | 296 | 1.145779 | 9.998893 | 40 | |
| | 30 | 8.853408 | 294 | 369.2 | 8.854517 | 296 | 1.145483 | 9.998892 | 30 | |
| | 40 | 8.853703 | 295 | 369.7 | 8.854813 | 295 | 1.145187 | 9.998890 | 20 | |
| | 50 | 8.853997 | 294 | 370.2 | 8.855108 | 295 | 1.144892 | 9.998889 | 10 | |
| 6 | 0 | 8.854291 | 293 | 370.7 | 8.855403 | 296 | 1.144597 | 9.998887 | 0 | 54 |
| | 10 | 8.854584 | 294 | 371.2 | 8.855699 | 294 | 1.144301 | 9.998886 | 50 | |
| | 20 | 8.854878 | 293 | 371.7 | 8.855993 | 295 | 1.144007 | 9.998884 | 40 | |
| | 30 | 8.855171 | 293 | 372.2 | 8.856288 | 295 | 1.143712 | 9.998883 | 30 | |
| | 40 | 8.855464 | 293 | 372.7 | 8.856583 | 295 | 1.143417 | 9.998881 | 20 | |
| | 50 | 8.855757 | 292 | 373.2 | 8.856877 | 294 | 1.143122 | 9.998880 | 10 | |
| 7 | 0 | 8.856049 | 293 | 373.7 | 8.857171 | 294 | 1.142829 | 9.998878 | 0 | 53 |
| | 10 | 8.856342 | 292 | 374.2 | 8.857465 | 294 | 1.142535 | 9.998877 | 50 | |
| | 20 | 8.856634 | 292 | 374.7 | 8.857759 | 294 | 1.142241 | 9.998875 | 40 | |
| | 30 | 8.856926 | 292 | 375.2 | 8.858053 | 293 | 1.141947 | 9.998873 | 30 | |
| | 40 | 8.857218 | 292 | 375.7 | 8.858346 | 293 | 1.141654 | 9.998872 | 20 | |
| | 50 | 8.857510 | 291 | 376.2 | 8.858639 | 293 | 1.141361 | 9.998870 | 10 | |
| 8 | 0 | 8.857801 | 291 | 376.7 | 8.858932 | 293 | 1.141068 | 9.998869 | 0 | 52 |
| | 10 | 8.858092 | 291 | 377.3 | 8.859225 | 292 | 1.140775 | 9.998867 | 50 | |
| | 20 | 8.858383 | 291 | 377.8 | 8.859517 | 293 | 1.140483 | 9.998866 | 40 | |
| | 30 | 8.858674 | 291 | 378.3 | 8.859810 | 292 | 1.140190 | 9.998864 | 30 | |
| | 40 | 8.858965 | 290 | 378.8 | 8.860102 | 292 | 1.139898 | 9.998863 | 20 | |
| | 50 | 8.859255 | 291 | 379.3 | 8.860394 | 292 | 1.139606 | 9.998861 | 10 | |
| 9 | 0 | 8.859546 | 290 | 379.8 | 8.860685 | 291 | 1.139315 | 9.998860 | 0 | 51 |
| | 10 | 8.859836 | 290 | 380.3 | 8.860977 | 292 | 1.139023 | 9.998858 | 50 | |
| | 20 | 8.860126 | 289 | 380.8 | 8.861269 | 291 | 1.138731 | 9.998857 | 40 | |
| | 30 | 8.860415 | 290 | 381.3 | 8.861560 | 291 | 1.138440 | 9.998855 | 30 | |
| | 40 | 8.860705 | 289 | 381.8 | 8.861851 | 291 | 1.138149 | 9.998854 | 20 | |
| | 50 | 8.860994 | 289 | 382.4 | 8.862142 | 291 | 1.137858 | 9.998852 | 10 | |
| 10 | 0 | 8.861283 | | 382.9 | 8.862433 | | 1.137567 | 9.998851 | 0 | 50 |
| | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 10 | o | 8.861283 | 289 | 382.9 | 8.862433 | 290 | 1.137567 | 9.998851 | o | 50 |
| | 10 | 8.861572 | 289 | 383.4 | 8.862723 | 290 | 1.137277 | 9.998849 | 50 | |
| | 20 | 8.861861 | 288 | 383.9 | 8.863013 | 290 | 1.136987 | 9.998848 | 40 | |
| | 30 | 8.862149 | 289 | 384.4 | 8.863303 | 290 | 1.136697 | 9.998846 | 30 | |
| | 40 | 8.862438 | 288 | 384.9 | 8.863593 | 290 | 1.136407 | 9.998844 | 20 | |
| | 50 | 8.862726 | 288 | 385.4 | 8.863883 | 290 | 1.136117 | 9.998843 | 10 | |
| 11 | o | 8.863014 | 288 | 385.9 | 8.864173 | 289 | 1.135827 | 9.998841 | o | 49 |
| | 10 | 8.863302 | 287 | 386.4 | 8.864462 | 289 | 1.135538 | 9.998840 | 50 | |
| | 20 | 8.863589 | 288 | 387.0 | 8.864751 | 289 | 1.135249 | 9.998838 | 40 | |
| | 30 | 8.863877 | 287 | 387.5 | 8.865040 | 289 | 1.134960 | 9.998837 | 30 | |
| | 40 | 8.864164 | 287 | 388.0 | 8.865329 | 288 | 1.134671 | 9.998835 | 20 | |
| | 50 | 8.864451 | 287 | 388.5 | 8.865617 | 288 | 1.134383 | 9.998834 | 10 | |
| 12 | o | 8.864738 | 286 | 389.0 | 8.865906 | 288 | 1.134094 | 9.998832 | o | 48 |
| | 10 | 8.865024 | 287 | 389.5 | 8.866194 | 288 | 1.133806 | 9.998831 | 50 | |
| | 20 | 8.865311 | 286 | 390.0 | 8.866482 | 287 | 1.133518 | 9.998829 | 40 | |
| | 30 | 8.865597 | 286 | 390.6 | 8.866769 | 288 | 1.133231 | 9.998827 | 30 | |
| | 40 | 8.865883 | 286 | 391.1 | 8.867057 | 287 | 1.132943 | 9.998826 | 20 | |
| | 50 | 8.866169 | 286 | 391.6 | 8.867344 | 288 | 1.132656 | 9.998824 | 10 | |
| 13 | o | 8.866455 | 285 | 392.1 | 8.867632 | 287 | 1.132368 | 9.998823 | o | 47 |
| | 10 | 8.866740 | 285 | 392.6 | 8.867919 | 287 | 1.132081 | 9.998821 | 50 | |
| | 20 | 8.867025 | 285 | 393.1 | 8.868206 | 286 | 1.131794 | 9.998820 | 40 | |
| | 30 | 8.867310 | 285 | 393.7 | 8.868492 | 287 | 1.131508 | 9.998818 | 30 | |
| | 40 | 8.867595 | 285 | 394.2 | 8.868779 | 286 | 1.131221 | 9.998817 | 20 | |
| | 50 | 8.867880 | 285 | 394.7 | 8.869065 | 286 | 1.130935 | 9.998815 | 10 | |
| 14 | o | 8.868165 | 284 | 395.2 | 8.869351 | 286 | 1.130649 | 9.998813 | o | 46 |
| | 10 | 8.868449 | 284 | 395.7 | 8.869637 | 286 | 1.130363 | 9.998812 | 50 | |
| | 20 | 8.868733 | 284 | 396.3 | 8.869923 | 285 | 1.130077 | 9.998810 | 40 | |
| | 30 | 8.869017 | 284 | 396.8 | 8.870208 | 286 | 1.129792 | 9.998809 | 30 | |
| | 40 | 8.869301 | 284 | 397.3 | 8.870494 | 285 | 1.129506 | 9.998807 | 20 | |
| | 50 | 8.869585 | 283 | 397.8 | 8.870779 | 285 | 1.129221 | 9.998806 | 10 | |
| 15 | o | 8.869868 | 283 | 398.3 | 8.871064 | 285 | 1.128936 | 9.998804 | o | 45 |
| | 10 | 8.870151 | 283 | 398.9 | 8.871349 | 284 | 1.128651 | 9.998803 | 50 | |
| | 20 | 8.870434 | 283 | 399.4 | 8.871633 | 285 | 1.128367 | 9.998801 | 40 | |
| | 30 | 8.870717 | 283 | 399.9 | 8.871918 | 284 | 1.128082 | 9.998799 | 30 | |
| | 40 | 8.871000 | 282 | 400.4 | 8.872202 | 284 | 1.127798 | 9.998798 | 20 | |
| | 50 | 8.871282 | 283 | 400.9 | 8.872486 | 284 | 1.127514 | 9.998796 | 10 | |
| 16 | o | 8.871565 | 282 | 401.5 | 8.872770 | 284 | 1.127230 | 9.998795 | o | 44 |
| | 10 | 8.871847 | 282 | 402.0 | 8.873054 | 283 | 1.126946 | 9.998793 | 50 | |
| | 20 | 8.872129 | 281 | 402.5 | 8.873337 | 283 | 1.126663 | 9.998792 | 40 | |
| | 30 | 8.872410 | 282 | 403.0 | 8.873620 | 284 | 1.126380 | 9.998790 | 30 | |
| | 40 | 8.872692 | 281 | 403.6 | 8.873904 | 283 | 1.126096 | 9.998788 | 20 | |
| | 50 | 8.872973 | 282 | 404.1 | 8.874187 | 282 | 1.125813 | 9.998787 | 10 | |
| 17 | o | 8.873255 | 281 | 404.6 | 8.874469 | 283 | 1.125531 | 9.998785 | o | 43 |
| | 10 | 8.873536 | 281 | 405.1 | 8.874752 | 282 | 1.125249 | 9.998784 | 50 | |
| | 20 | 8.873817 | 280 | 405.7 | 8.875034 | 283 | 1.124966 | 9.998782 | 40 | |
| | 30 | 8.874097 | 281 | 406.2 | 8.875317 | 282 | 1.124683 | 9.998781 | 30 | |
| | 40 | 8.874378 | 280 | 406.7 | 8.875599 | 282 | 1.124401 | 9.998779 | 20 | |
| | 50 | 8.874658 | 280 | 407.2 | 8.875881 | 281 | 1.124119 | 9.998777 | 10 | |
| 18 | o | 8.874938 | 280 | 407.8 | 8.876162 | 282 | 1.123838 | 9.998776 | o | 42 |
| | 10 | 8.875218 | 280 | 408.3 | 8.876444 | 281 | 1.123556 | 9.998774 | 50 | |
| | 20 | 8.875498 | 279 | 408.8 | 8.876725 | 281 | 1.123275 | 9.998773 | 40 | |
| | 30 | 8.875777 | 280 | 409.3 | 8.877006 | 281 | 1.122994 | 9.998771 | 30 | |
| | 40 | 8.876057 | 279 | 409.9 | 8.877287 | 281 | 1.122713 | 9.998769 | 20 | |
| | 50 | 8.876336 | 279 | 410.4 | 8.877568 | 281 | 1.122432 | 9.998768 | 10 | |
| 19 | o | 8.876615 | 279 | 410.9 | 8.877849 | 280 | 1.122151 | 9.998766 | o | 41 |
| | 10 | 8.876894 | 278 | 411.5 | 8.878129 | 280 | 1.121871 | 9.998765 | 50 | |
| | 20 | 8.877172 | 279 | 412.0 | 8.878409 | 280 | 1.121591 | 9.998763 | 40 | |
| | 30 | 8.877451 | 278 | 412.5 | 8.878689 | 280 | 1.121311 | 9.998762 | 30 | |
| | 40 | 8.877729 | 278 | 413.0 | 8.878969 | 280 | 1.121031 | 9.998760 | 20 | |
| | 50 | 8.878007 | 278 | 413.6 | 8.879249 | 280 | 1.120751 | 9.998758 | 10 | |
| 20 | o | 8.878285 | 278 | 414.1 | 8.879529 | 280 | 1.120471 | 9.998757 | o | 40 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 20 | o | 8.878285 | 278 | 414.1 | 8.879529 | 279 | I.I20471 | 9.998757 | o | 40 |
| | 10 | 8.878563 | 278 | 414.6 | 8.879808 | 279 | I.I20192 | 9.998755 | 50 | |
| | 20 | 8.878841 | 278 | 415.2 | 8.880087 | 279 | I.I19913 | 9.998754 | 40 | |
| | 30 | 8.879118 | 277 | 415.7 | 8.880366 | 279 | I.I19634 | 9.998752 | 30 | |
| | 40 | 8.879395 | 277 | 416.2 | 8.880645 | 279 | I.I19355 | 9.998750 | 20 | |
| | 50 | 8.879672 | 277 | 416.8 | 8.880924 | 278 | I.I19076 | 9.998749 | 10 | |
| 21 | o | 8.879949 | 277 | 417.3 | 8.881202 | 278 | I.I18798 | 9.998747 | o | 39 |
| | 10 | 8.880226 | 277 | 417.8 | 8.881480 | 279 | I.I18520 | 9.998746 | 50 | |
| | 20 | 8.880503 | 277 | 418.4 | 8.881759 | 279 | I.I18241 | 9.998744 | 40 | |
| | 30 | 8.880779 | 276 | 418.9 | 8.882037 | 278 | I.I17963 | 9.998742 | 30 | |
| | 40 | 8.881055 | 276 | 419.4 | 8.882314 | 278 | I.I17686 | 9.998741 | 20 | |
| | 50 | 8.881331 | 276 | 420.0 | 8.882592 | 277 | I.I17408 | 9.998739 | 10 | |
| 22 | o | 8.881607 | 276 | 420.5 | 8.882869 | 278 | I.I17131 | 9.998738 | o | 38 |
| | 10 | 8.881883 | 275 | 421.0 | 8.883147 | 277 | I.I16853 | 9.998736 | 50 | |
| | 20 | 8.882158 | 275 | 421.6 | 8.883424 | 277 | I.I16576 | 9.998734 | 40 | |
| | 30 | 8.882433 | 275 | 422.1 | 8.883701 | 277 | I.I16299 | 9.998733 | 30 | |
| | 40 | 8.882708 | 275 | 422.6 | 8.883977 | 276 | I.I16023 | 9.998731 | 20 | |
| | 50 | 8.882983 | 275 | 423.2 | 8.884254 | 276 | I.I15746 | 9.998729 | 10 | |
| 23 | o | 8.883258 | 275 | 423.7 | 8.884530 | 277 | I.I15470 | 9.998728 | o | 37 |
| | 10 | 8.883533 | 274 | 424.3 | 8.884807 | 276 | I.I15193 | 9.998726 | 50 | |
| | 20 | 8.883807 | 274 | 424.8 | 8.885083 | 276 | I.I14917 | 9.998725 | 40 | |
| | 30 | 8.884081 | 274 | 425.3 | 8.885358 | 275 | I.I14642 | 9.998723 | 30 | |
| | 40 | 8.884355 | 274 | 425.9 | 8.885634 | 276 | I.I14366 | 9.998721 | 20 | |
| | 50 | 8.884629 | 274 | 426.4 | 8.885910 | 275 | I.I14090 | 9.998720 | 10 | |
| 24 | o | 8.884903 | 274 | 427.0 | 8.886185 | 275 | I.I13815 | 9.998718 | o | 36 |
| | 10 | 8.885177 | 273 | 427.5 | 8.886460 | 275 | I.I13540 | 9.998717 | 50 | |
| | 20 | 8.885450 | 273 | 428.0 | 8.886735 | 275 | I.I13265 | 9.998715 | 40 | |
| | 30 | 8.885723 | 273 | 428.6 | 8.887010 | 275 | I.I12990 | 9.998713 | 30 | |
| | 40 | 8.885996 | 273 | 429.1 | 8.887285 | 275 | I.I12715 | 9.998712 | 20 | |
| | 50 | 8.886269 | 273 | 429.7 | 8.887559 | 274 | I.I12441 | 9.998710 | 10 | |
| 25 | o | 8.886542 | 272 | 430.2 | 8.887833 | 275 | I.I12167 | 9.998708 | o | 35 |
| | 10 | 8.886814 | 273 | 430.7 | 8.888108 | 274 | I.I11892 | 9.998707 | 50 | |
| | 20 | 8.887087 | 272 | 431.3 | 8.888382 | 273 | I.I11618 | 9.998705 | 40 | |
| | 30 | 8.887359 | 272 | 431.8 | 8.888655 | 274 | I.I11345 | 9.998704 | 30 | |
| | 40 | 8.887631 | 272 | 432.4 | 8.888929 | 273 | I.I11071 | 9.998702 | 20 | |
| | 50 | 8.887903 | 271 | 432.9 | 8.889202 | 274 | I.I10798 | 9.998700 | 10 | |
| 26 | o | 8.888174 | 272 | 433.4 | 8.889476 | 273 | I.I10524 | 9.998699 | o | 34 |
| | 10 | 8.888446 | 271 | 434.0 | 8.889749 | 273 | I.I10251 | 9.998697 | 50 | |
| | 20 | 8.888717 | 271 | 434.5 | 8.890022 | 273 | I.I09978 | 9.998695 | 40 | |
| | 30 | 8.888988 | 271 | 435.1 | 8.890295 | 272 | I.I09705 | 9.998694 | 30 | |
| | 40 | 8.889259 | 271 | 435.6 | 8.890567 | 273 | I.I09433 | 9.998692 | 20 | |
| | 50 | 8.889530 | 271 | 436.2 | 8.890840 | 272 | I.I09160 | 9.998690 | 10 | |
| 27 | o | 8.889801 | 270 | 436.7 | 8.891112 | 272 | I.I08888 | 9.998689 | o | 33 |
| | 10 | 8.890071 | 270 | 437.3 | 8.891384 | 272 | I.I08616 | 9.998687 | 50 | |
| | 20 | 8.890341 | 271 | 437.8 | 8.891656 | 272 | I.I08344 | 9.998686 | 40 | |
| | 30 | 8.890612 | 270 | 438.3 | 8.891928 | 271 | I.I08072 | 9.998684 | 30 | |
| | 40 | 8.890882 | 269 | 438.9 | 8.892199 | 272 | I.I07801 | 9.998682 | 20 | |
| | 50 | 8.891151 | 270 | 439.4 | 8.892471 | 271 | I.I07529 | 9.998681 | 10 | |
| 28 | o | 8.891421 | 269 | 440.0 | 8.892742 | 271 | I.I07257 | 9.998679 | o | 32 |
| | 10 | 8.891690 | 270 | 440.5 | 8.893013 | 271 | I.I06985 | 9.998678 | 50 | |
| | 20 | 8.891960 | 269 | 441.1 | 8.893284 | 271 | I.I06713 | 9.998676 | 40 | |
| | 30 | 8.892229 | 269 | 441.6 | 8.893555 | 270 | I.I06445 | 9.998674 | 30 | |
| | 40 | 8.892498 | 269 | 442.2 | 8.893825 | 271 | I.I06175 | 9.998672 | 20 | |
| | 50 | 8.892767 | 268 | 442.7 | 8.894096 | 270 | I.I05904 | 9.998671 | 10 | |
| 29 | o | 8.893035 | 269 | 443.3 | 8.894366 | 270 | I.I05634 | 9.998669 | o | 31 |
| | 10 | 8.893304 | 268 | 443.8 | 8.894636 | 270 | I.I05364 | 9.998667 | 50 | |
| | 20 | 8.893572 | 268 | 444.4 | 8.894906 | 270 | I.I05094 | 9.998666 | 40 | |
| | 30 | 8.893840 | 268 | 444.9 | 8.895176 | 269 | I.I04824 | 9.998664 | 30 | |
| | 40 | 8.894108 | 268 | 445.5 | 8.895445 | 270 | I.I04555 | 9.998662 | 20 | |
| | 50 | 8.894376 | 267 | 446.0 | 8.895715 | 269 | I.I04285 | 9.998661 | 10 | |
| 30 | o | 8.894643 | 267 | 446.6 | 8.895984 | 269 | I.I04016 | 9.998659 | o | 30 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 30 | o | 8.894643 | 268 | 446.6 | 8.895984 | 269 | 1.104016 | 9.998659 | o | 30 |
| | 10 | 8.894911 | 267 | 447.1 | 8.896253 | 269 | 1.103747 | 9.998657 | 50 | |
| | 20 | 8.895178 | 267 | 447.7 | 8.896522 | 269 | 1.103478 | 9.998656 | 40 | |
| | 30 | 8.895445 | 267 | 448.2 | 8.896791 | 269 | 1.103209 | 9.998654 | 30 | |
| | 40 | 8.895712 | 267 | 448.8 | 8.897060 | 268 | 1.102940 | 9.998653 | 20 | |
| | 50 | 8.895979 | 267 | 449.3 | 8.897328 | 268 | 1.102672 | 9.998651 | 10 | |
| 31 | o | 8.896246 | 266 | 449.9 | 8.897596 | 268 | 1.102404 | 9.998649 | o | 29 |
| | 10 | 8.896512 | 266 | 450.5 | 8.897864 | 268 | 1.102136 | 9.998648 | 50 | |
| | 20 | 8.896778 | 266 | 451.0 | 8.898132 | 268 | 1.101868 | 9.998646 | 40 | |
| | 30 | 8.897044 | 266 | 451.6 | 8.898400 | 268 | 1.101600 | 9.998644 | 30 | |
| | 40 | 8.897310 | 266 | 452.1 | 8.898668 | 267 | 1.101332 | 9.998643 | 20 | |
| | 50 | 8.897576 | 266 | 452.7 | 8.898935 | 268 | 1.101065 | 9.998641 | 10 | |
| 32 | o | 8.897842 | 265 | 453.2 | 8.899203 | 267 | 1.100797 | 9.998639 | o | 28 |
| | 10 | 8.898107 | 266 | 453.8 | 8.899470 | 267 | 1.100530 | 9.998638 | 50 | |
| | 20 | 8.898373 | 265 | 454.3 | 8.899737 | 267 | 1.100263 | 9.998636 | 40 | |
| | 30 | 8.898638 | 265 | 454.9 | 8.900004 | 266 | 1.099996 | 9.998634 | 30 | |
| | 40 | 8.898903 | 265 | 455.4 | 8.900270 | 267 | 1.099730 | 9.998633 | 20 | |
| | 50 | 8.899168 | 264 | 456.0 | 8.900537 | 266 | 1.099463 | 9.998631 | 10 | |
| 33 | o | 8.899432 | 265 | 456.6 | 8.900803 | 266 | 1.099197 | 9.998629 | o | 27 |
| | 10 | 8.899697 | 264 | 457.1 | 8.901069 | 266 | 1.098931 | 9.998627 | 50 | |
| | 20 | 8.899961 | 264 | 457.7 | 8.901335 | 266 | 1.098665 | 9.998626 | 40 | |
| | 30 | 8.900225 | 264 | 458.2 | 8.901601 | 266 | 1.098399 | 9.998624 | 30 | |
| | 40 | 8.900489 | 264 | 458.8 | 8.901867 | 266 | 1.098133 | 9.998622 | 20 | |
| | 50 | 8.900753 | 264 | 459.4 | 8.902132 | 265 | 1.097868 | 9.998621 | 10 | |
| 34 | o | 8.901017 | 263 | 459.9 | 8.902398 | 265 | 1.097602 | 9.998619 | o | 26 |
| | 10 | 8.901280 | 264 | 460.5 | 8.902663 | 265 | 1.097337 | 9.998617 | 50 | |
| | 20 | 8.901544 | 263 | 461.0 | 8.902928 | 265 | 1.097072 | 9.998616 | 40 | |
| | 30 | 8.901807 | 263 | 461.6 | 8.903193 | 265 | 1.096807 | 9.998614 | 30 | |
| | 40 | 8.902070 | 263 | 462.2 | 8.903458 | 265 | 1.096542 | 9.998612 | 20 | |
| | 50 | 8.902333 | 263 | 462.7 | 8.903722 | 265 | 1.096278 | 9.998611 | 10 | |
| 35 | o | 8.902596 | 262 | 463.3 | 8.903987 | 264 | 1.096013 | 9.998609 | o | 25 |
| | 10 | 8.902858 | 263 | 463.8 | 8.904251 | 264 | 1.095749 | 9.998607 | 50 | |
| | 20 | 8.903121 | 262 | 464.4 | 8.904515 | 264 | 1.095485 | 9.998606 | 40 | |
| | 30 | 8.903383 | 262 | 465.0 | 8.904779 | 264 | 1.095221 | 9.998604 | 30 | |
| | 40 | 8.903645 | 262 | 465.5 | 8.905043 | 263 | 1.094957 | 9.998602 | 20 | |
| | 50 | 8.903907 | 262 | 466.1 | 8.905306 | 264 | 1.094694 | 9.998601 | 10 | |
| 36 | o | 8.904169 | 261 | 466.7 | 8.905570 | 263 | 1.094430 | 9.998599 | o | 24 |
| | 10 | 8.904430 | 262 | 467.2 | 8.905833 | 263 | 1.094167 | 9.998597 | 50 | |
| | 20 | 8.904692 | 261 | 467.8 | 8.906096 | 263 | 1.093904 | 9.998595 | 40 | |
| | 30 | 8.904953 | 261 | 468.3 | 8.906359 | 263 | 1.093641 | 9.998594 | 30 | |
| | 40 | 8.905214 | 261 | 468.9 | 8.906622 | 263 | 1.093378 | 9.998592 | 20 | |
| | 50 | 8.905475 | 261 | 469.5 | 8.906885 | 262 | 1.093115 | 9.998590 | 10 | |
| 37 | o | 8.905736 | 261 | 470.0 | 8.907147 | 263 | 1.092853 | 9.998589 | o | 23 |
| | 10 | 8.905997 | 260 | 470.6 | 8.907410 | 262 | 1.092591 | 9.998587 | 50 | |
| | 20 | 8.906257 | 260 | 471.2 | 8.907672 | 262 | 1.092328 | 9.998585 | 40 | |
| | 30 | 8.906517 | 261 | 471.7 | 8.907934 | 262 | 1.092066 | 9.998584 | 30 | |
| | 40 | 8.906778 | 260 | 472.3 | 8.908196 | 261 | 1.091804 | 9.998582 | 20 | |
| | 50 | 8.907038 | 260 | 472.9 | 8.908457 | 262 | 1.091543 | 9.998580 | 10 | |
| 38 | o | 8.907297 | 259 | 473.4 | 8.908719 | 261 | 1.091281 | 9.998578 | o | 22 |
| | 10 | 8.907557 | 260 | 474.0 | 8.908980 | 262 | 1.091020 | 9.998577 | 50 | |
| | 20 | 8.907817 | 259 | 474.6 | 8.909242 | 261 | 1.090758 | 9.998575 | 40 | |
| | 30 | 8.908076 | 259 | 475.1 | 8.909503 | 261 | 1.090497 | 9.998573 | 30 | |
| | 40 | 8.908335 | 259 | 475.7 | 8.909764 | 261 | 1.090236 | 9.998572 | 20 | |
| | 50 | 8.908595 | 258 | 476.3 | 8.910025 | 261 | 1.089975 | 9.998570 | 10 | |
| 39 | o | 8.908853 | 259 | 476.9 | 8.910285 | 261 | 1.089715 | 9.998568 | o | 21 |
| | 10 | 8.909112 | 259 | 477.4 | 8.910546 | 260 | 1.089455 | 9.998566 | 50 | |
| | 20 | 8.909371 | 258 | 478.0 | 8.910806 | 260 | 1.089194 | 9.998565 | 40 | |
| | 30 | 8.909629 | 259 | 478.6 | 8.911066 | 260 | 1.088934 | 9.998563 | 30 | |
| | 40 | 8.909888 | 258 | 479.1 | 8.911326 | 260 | 1.088674 | 9.998561 | 20 | |
| | 50 | 8.910146 | 258 | 479.7 | 8.911586 | 260 | 1.088414 | 9.998560 | 10 | |
| 40 | o | 8.910404 | 258 | 480.3 | 8.911846 | 260 | 1.088154 | 9.998558 | o | 20 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 40 | 0 | 8.910404 | 258 | 480.3 | 8.911846 | 260 | 1.088154 | 9.998558 | 0 | 20 |
| | 10 | 8.910662 | 257 | 480.9 | 8.912106 | 259 | 1.087894 | 9.998556 | 50 | |
| | 20 | 8.910919 | 258 | 481.4 | 8.912365 | 259 | 1.087635 | 9.998554 | 40 | |
| | 30 | 8.911177 | 257 | 482.0 | 8.912624 | 259 | 1.087376 | 9.998553 | 30 | |
| | 40 | 8.911434 | 257 | 482.6 | 8.912883 | 259 | 1.087117 | 9.998551 | 20 | |
| | 50 | 8.911692 | 258 | 483.1 | 8.913142 | 259 | 1.086858 | 9.998549 | 10 | |
| 41 | 0 | 8.911949 | 257 | 483.7 | 8.913401 | 259 | 1.086599 | 9.998548 | 0 | 19 |
| | 10 | 8.912206 | 256 | 484.3 | 8.913660 | 258 | 1.086340 | 9.998546 | 50 | |
| | 20 | 8.912462 | 257 | 484.9 | 8.913918 | 259 | 1.086082 | 9.998544 | 40 | |
| | 30 | 8.912719 | 257 | 485.4 | 8.914177 | 259 | 1.085823 | 9.998542 | 30 | |
| | 40 | 8.912976 | 257 | 486.0 | 8.914435 | 258 | 1.085565 | 9.998541 | 20 | |
| | 50 | 8.913232 | 256 | 486.6 | 8.914693 | 258 | 1.085307 | 9.998539 | 10 | |
| 42 | 0 | 8.913488 | 256 | 487.2 | 8.914951 | 258 | 1.085049 | 9.998537 | 0 | 18 |
| | 10 | 8.913744 | 256 | 487.7 | 8.915209 | 257 | 1.084791 | 9.998535 | 50 | |
| | 20 | 8.914000 | 256 | 488.3 | 8.915466 | 258 | 1.084534 | 9.998534 | 40 | |
| | 30 | 8.914256 | 255 | 488.9 | 8.915724 | 257 | 1.084276 | 9.998532 | 30 | |
| | 40 | 8.914511 | 256 | 489.5 | 8.915981 | 257 | 1.084019 | 9.998530 | 20 | |
| | 50 | 8.914767 | 255 | 490.1 | 8.916238 | 257 | 1.083762 | 9.998529 | 10 | |
| 43 | 0 | 8.915022 | 255 | 490.6 | 8.916495 | 257 | 1.083505 | 9.998527 | 0 | 17 |
| | 10 | 8.915277 | 255 | 491.2 | 8.916752 | 257 | 1.083248 | 9.998525 | 50 | |
| | 20 | 8.915532 | 255 | 491.8 | 8.917009 | 256 | 1.082991 | 9.998523 | 40 | |
| | 30 | 8.915787 | 254 | 492.4 | 8.917265 | 256 | 1.082735 | 9.998522 | 30 | |
| | 40 | 8.916041 | 255 | 492.9 | 8.917522 | 256 | 1.082478 | 9.998520 | 20 | |
| | 50 | 8.916296 | 254 | 493.5 | 8.917778 | 256 | 1.082222 | 9.998518 | 10 | |
| 44 | 0 | 8.916550 | 255 | 494.1 | 8.918035 | 256 | 1.081966 | 9.998516 | 0 | 16 |
| | 10 | 8.916805 | 254 | 495.3 | 8.918292 | 256 | 1.081710 | 9.998515 | 50 | |
| | 20 | 8.917059 | 254 | 495.8 | 8.918546 | 255 | 1.081454 | 9.998513 | 40 | |
| | 30 | 8.917313 | 253 | 496.4 | 8.918801 | 256 | 1.081199 | 9.998511 | 30 | |
| | 40 | 8.917566 | 254 | 497.0 | 8.919057 | 255 | 1.080943 | 9.998509 | 20 | |
| | 50 | 8.917820 | 253 | 497.6 | 8.919312 | 256 | 1.080688 | 9.998508 | 10 | |
| 45 | 0 | 8.918073 | 254 | 498.2 | 8.919568 | 255 | 1.080432 | 9.998506 | 0 | 15 |
| | 10 | 8.918327 | 253 | 498.8 | 8.919823 | 255 | 1.080177 | 9.998504 | 50 | |
| | 20 | 8.918580 | 253 | 499.3 | 8.920078 | 254 | 1.079922 | 9.998502 | 40 | |
| | 30 | 8.918833 | 253 | 499.9 | 8.920332 | 255 | 1.079668 | 9.998501 | 30 | |
| | 40 | 8.919086 | 252 | 500.5 | 8.920587 | 255 | 1.079413 | 9.998499 | 20 | |
| | 50 | 8.919338 | 253 | 501.1 | 8.920841 | 254 | 1.079158 | 9.998497 | 10 | |
| 46 | 0 | 8.919591 | 252 | 501.7 | 8.921096 | 254 | 1.078903 | 9.998495 | 0 | 14 |
| | 10 | 8.919843 | 253 | 502.3 | 8.921350 | 254 | 1.078648 | 9.998493 | 50 | |
| | 20 | 8.920096 | 252 | 502.8 | 8.921604 | 254 | 1.078393 | 9.998491 | 40 | |
| | 30 | 8.920348 | 252 | 503.4 | 8.921858 | 254 | 1.078138 | 9.998489 | 30 | |
| | 40 | 8.920600 | 252 | 504.0 | 8.922112 | 253 | 1.077883 | 9.998488 | 20 | |
| | 50 | 8.920852 | 251 | 504.6 | 8.922365 | 254 | 1.077628 | 9.998487 | 10 | |
| 47 | 0 | 8.921103 | 252 | 505.2 | 8.922619 | 253 | 1.077373 | 9.998485 | 0 | 13 |
| | 10 | 8.921355 | 251 | 505.8 | 8.922872 | 253 | 1.077118 | 9.998483 | 50 | |
| | 20 | 8.921606 | 252 | 506.4 | 8.923125 | 253 | 1.076863 | 9.998481 | 40 | |
| | 30 | 8.921858 | 251 | 507.0 | 8.923378 | 253 | 1.076608 | 9.998479 | 30 | |
| | 40 | 8.922109 | 251 | 507.5 | 8.923631 | 253 | 1.076353 | 9.998478 | 20 | |
| | 50 | 8.922360 | 250 | 508.1 | 8.923884 | 252 | 1.076098 | 9.998476 | 10 | |
| 48 | 0 | 8.922610 | 251 | 508.7 | 8.924136 | 253 | 1.075843 | 9.998474 | 0 | 12 |
| | 10 | 8.922861 | 251 | 509.3 | 8.924389 | 252 | 1.075588 | 9.998472 | 50 | |
| | 20 | 8.923112 | 250 | 509.9 | 8.924641 | 252 | 1.075333 | 9.998471 | 40 | |
| | 30 | 8.923362 | 250 | 510.5 | 8.924893 | 252 | 1.075078 | 9.998469 | 30 | |
| | 40 | 8.923612 | 250 | 511.1 | 8.925145 | 252 | 1.074823 | 9.998467 | 20 | |
| | 50 | 8.923862 | 249 | 511.7 | 8.925397 | 252 | 1.074568 | 9.998465 | 10 | |
| 49 | 0 | 8.924112 | 250 | 512.3 | 8.925649 | 251 | 1.074313 | 9.998464 | 0 | 11 |
| | 10 | 8.924362 | 250 | 512.8 | 8.925900 | 252 | 1.074058 | 9.998462 | 50 | |
| | 20 | 8.924612 | 249 | 513.4 | 8.926152 | 251 | 1.073803 | 9.998460 | 40 | |
| | 30 | 8.924861 | 250 | 514.0 | 8.926403 | 251 | 1.073548 | 9.998458 | 30 | |
| | 40 | 8.925111 | 249 | 514.6 | 8.926654 | 251 | 1.073293 | 9.998456 | 20 | |
| | 50 | 8.925360 | 249 | 515.2 | 8.926905 | 251 | 1.073038 | 9.998455 | 10 | |
| 50 | 0 | 8.925609 | | | 8.927156 | | 1.072784 | 9.998453 | 0 | 10 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | b. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|-------|----------|-------|----------|----------|----|----|
| 50 | 0 | 8.925609 | 249 | 515.2 | 8.927156 | 251 | 1.072844 | 9.998453 | 0 | 10 |
| | 10 | 8.925858 | 249 | 515.8 | 8.927407 | 250 | 1.072593 | 9.998451 | 50 | |
| | 20 | 8.926107 | 248 | 516.4 | 8.927657 | 251 | 1.072343 | 9.998449 | 40 | |
| | 30 | 8.926355 | 249 | 517.0 | 8.927908 | 250 | 1.072092 | 9.998448 | 30 | |
| | 40 | 8.926604 | 248 | 517.6 | 8.928158 | 250 | 1.071842 | 9.998446 | 20 | |
| | 50 | 8.926852 | 248 | 518.2 | 8.928408 | 250 | 1.071592 | 9.998444 | 10 | |
| 51 | 0 | 8.927100 | 248 | 518.8 | 8.928658 | 250 | 1.071342 | 9.998442 | 0 | 9 |
| | 10 | 8.927348 | 248 | 519.4 | 8.928908 | 250 | 1.071092 | 9.998440 | 50 | |
| | 20 | 8.927596 | 248 | 520.0 | 8.929158 | 249 | 1.070842 | 9.998439 | 40 | |
| | 30 | 8.927844 | 248 | 520.6 | 8.929407 | 250 | 1.070593 | 9.998437 | 30 | |
| | 40 | 8.928092 | 247 | 521.2 | 8.929657 | 249 | 1.070343 | 9.998435 | 20 | |
| | 50 | 8.928339 | 248 | 521.7 | 8.929906 | 249 | 1.070094 | 9.998433 | 10 | |
| 52 | 0 | 8.928587 | 247 | 522.3 | 8.930155 | 249 | 1.069845 | 9.998431 | 0 | 8 |
| | 10 | 8.928834 | 247 | 522.9 | 8.930404 | 249 | 1.069596 | 9.998430 | 50 | |
| | 20 | 8.929081 | 247 | 523.5 | 8.930653 | 249 | 1.069347 | 9.998428 | 40 | |
| | 30 | 8.929328 | 247 | 524.1 | 8.930902 | 248 | 1.069098 | 9.998426 | 30 | |
| | 40 | 8.929575 | 246 | 524.7 | 8.931150 | 249 | 1.068850 | 9.998424 | 20 | |
| | 50 | 8.929821 | 247 | 525.3 | 8.931399 | 248 | 1.068601 | 9.998422 | 10 | |
| 53 | 0 | 8.930068 | 246 | 525.9 | 8.931647 | 248 | 1.068353 | 9.998421 | 0 | 7 |
| | 10 | 8.930314 | 246 | 526.5 | 8.931895 | 248 | 1.068105 | 9.998419 | 50 | |
| | 20 | 8.930560 | 246 | 527.1 | 8.932143 | 248 | 1.067857 | 9.998417 | 40 | |
| | 30 | 8.930806 | 246 | 527.7 | 8.932391 | 248 | 1.067609 | 9.998415 | 30 | |
| | 40 | 8.931052 | 246 | 528.3 | 8.932639 | 248 | 1.067361 | 9.998413 | 20 | |
| | 50 | 8.931298 | 245 | 528.9 | 8.932887 | 247 | 1.067113 | 9.998412 | 10 | |
| 54 | 0 | 8.931544 | 246 | 529.5 | 8.933134 | 247 | 1.066866 | 9.998410 | 0 | 6 |
| | 10 | 8.931789 | 246 | 530.1 | 8.933381 | 248 | 1.066619 | 9.998408 | 50 | |
| | 20 | 8.932035 | 245 | 530.7 | 8.933629 | 247 | 1.066371 | 9.998406 | 40 | |
| | 30 | 8.932280 | 245 | 531.3 | 8.933876 | 247 | 1.066124 | 9.998404 | 30 | |
| | 40 | 8.932525 | 245 | 531.9 | 8.934123 | 247 | 1.065877 | 9.998403 | 20 | |
| | 50 | 8.932770 | 245 | 532.5 | 8.934369 | 247 | 1.065631 | 9.998401 | 10 | |
| 55 | 0 | 8.933015 | 245 | 533.1 | 8.934616 | 246 | 1.065384 | 9.998399 | 0 | 5 |
| | 10 | 8.933260 | 244 | 533.7 | 8.934862 | 247 | 1.065138 | 9.998397 | 50 | |
| | 20 | 8.933504 | 245 | 534.3 | 8.935109 | 246 | 1.064891 | 9.998395 | 40 | |
| | 30 | 8.933749 | 244 | 534.9 | 8.935355 | 246 | 1.064645 | 9.998394 | 30 | |
| | 40 | 8.933993 | 244 | 535.5 | 8.935601 | 246 | 1.064399 | 9.998392 | 20 | |
| | 50 | 8.934237 | 244 | 536.2 | 8.935847 | 246 | 1.064153 | 9.998390 | 10 | |
| 56 | 0 | 8.934481 | 244 | 536.8 | 8.936093 | 246 | 1.063907 | 9.998388 | 0 | 4 |
| | 10 | 8.934725 | 244 | 537.4 | 8.936339 | 245 | 1.063661 | 9.998386 | 50 | |
| | 20 | 8.934969 | 243 | 538.0 | 8.936584 | 246 | 1.063416 | 9.998385 | 40 | |
| | 30 | 8.935212 | 244 | 538.6 | 8.936830 | 245 | 1.063170 | 9.998383 | 30 | |
| | 40 | 8.935456 | 244 | 539.2 | 8.937075 | 245 | 1.062925 | 9.998381 | 20 | |
| | 50 | 8.935699 | 243 | 539.8 | 8.937320 | 245 | 1.062680 | 9.998379 | 10 | |
| 57 | 0 | 8.935942 | 243 | 540.4 | 8.937565 | 245 | 1.062435 | 9.998377 | 0 | 3 |
| | 10 | 8.936185 | 243 | 541.0 | 8.937810 | 245 | 1.062190 | 9.998375 | 50 | |
| | 20 | 8.936428 | 243 | 541.6 | 8.938055 | 245 | 1.061945 | 9.998374 | 40 | |
| | 30 | 8.936671 | 243 | 542.2 | 8.938299 | 244 | 1.061701 | 9.998372 | 30 | |
| | 40 | 8.936914 | 242 | 542.8 | 8.938544 | 245 | 1.061456 | 9.998370 | 20 | |
| | 50 | 8.937156 | 242 | 543.4 | 8.938788 | 244 | 1.061212 | 9.998368 | 10 | |
| 58 | 0 | 8.937398 | 243 | 544.0 | 8.939032 | 244 | 1.060968 | 9.998366 | 0 | 2 |
| | 10 | 8.937641 | 242 | 544.6 | 8.939276 | 244 | 1.060724 | 9.998364 | 50 | |
| | 20 | 8.937883 | 242 | 545.3 | 8.939520 | 244 | 1.060480 | 9.998363 | 40 | |
| | 30 | 8.938125 | 241 | 545.9 | 8.939764 | 243 | 1.060236 | 9.998361 | 30 | |
| | 40 | 8.938366 | 242 | 546.5 | 8.940007 | 243 | 1.059993 | 9.998359 | 20 | |
| | 50 | 8.938608 | 242 | 547.1 | 8.940251 | 244 | 1.059749 | 9.998357 | 10 | |
| 59 | 0 | 8.938850 | 241 | 547.7 | 8.940494 | 243 | 1.059506 | 9.998355 | 0 | 1 |
| | 10 | 8.939091 | 241 | 548.3 | 8.940738 | 244 | 1.059262 | 9.998353 | 50 | |
| | 20 | 8.939332 | 241 | 548.9 | 8.940981 | 243 | 1.059019 | 9.998352 | 40 | |
| | 30 | 8.939573 | 241 | 549.5 | 8.941224 | 243 | 1.058776 | 9.998350 | 30 | |
| | 40 | 8.939814 | 241 | 550.1 | 8.941467 | 243 | 1.058533 | 9.998348 | 20 | |
| | 50 | 8.940055 | 241 | 550.8 | 8.941709 | 242 | 1.058291 | 9.998346 | 10 | |
| 60 | 0 | 8.940296 | 241 | 551.4 | 8.941952 | 243 | 1.058048 | 9.998344 | 0 | 0 |
| ' | " | Cos | d. | b. | Cotg | d. c. | Tang | Sin | " | ' |

243
1 24.3
2 48.6
3 72.9
4 97.2
5 121.5
6 145.8
7 170.1
8 194.4
9 218.7

241
1 24.1
2 48.2
3 72.3
4 96.4
5 120.5
6 144.6
7 168.7
8 192.8
9 216.9

239
1 23.9
2 47.8
3 71.7
4 95.6
5 119.5
6 143.4
7 167.3
8 191.2
9 215.1

237
1 23.7
2 47.4
3 71.1
4 94.8
5 118.5
6 142.2
7 165.9
8 189.6
9 213.3

235
1 23.5
2 47.0
3 70.5
4 94.0
5 117.5
6 141.0
7 164.5
8 188.0
9 211.5

| | | Sin | d. | Tang | d. c. | Cotg | Cos | | |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 0 | 0 | 8.940296 | 241 | 8.941952 | 242 | 1.058048 | 9.998344 | 0 | 60 |
| | 10 | 8.940537 | 240 | 8.942194 | 243 | 1.057806 | 9.998342 | 50 | |
| | 20 | 8.940777 | 240 | 8.942437 | 243 | 1.057563 | 9.998341 | 40 | |
| | 30 | 8.941017 | 241 | 8.942679 | 242 | 1.057321 | 9.998339 | 30 | |
| | 40 | 8.941258 | 240 | 8.942921 | 242 | 1.057079 | 9.998337 | 20 | |
| | 50 | 8.941498 | 240 | 8.943163 | 241 | 1.056837 | 9.998335 | 10 | |
| 1 | 0 | 8.941738 | 239 | 8.943404 | 242 | 1.056596 | 9.998333 | 0 | 59 |
| | 10 | 8.941977 | 240 | 8.943646 | 242 | 1.056354 | 9.998331 | 50 | |
| | 20 | 8.942217 | 240 | 8.943888 | 241 | 1.056112 | 9.998329 | 40 | |
| | 30 | 8.942457 | 239 | 8.944129 | 241 | 1.055871 | 9.998328 | 30 | |
| | 40 | 8.942696 | 239 | 8.944370 | 241 | 1.055630 | 9.998326 | 20 | |
| | 50 | 8.942935 | 239 | 8.944611 | 241 | 1.055389 | 9.998324 | 10 | |
| 2 | 0 | 8.943174 | 239 | 8.944852 | 241 | 1.055148 | 9.998322 | 0 | 58 |
| | 10 | 8.943413 | 239 | 8.945093 | 241 | 1.054907 | 9.998320 | 50 | |
| | 20 | 8.943652 | 239 | 8.945334 | 240 | 1.054666 | 9.998318 | 40 | |
| | 30 | 8.943891 | 238 | 8.945574 | 240 | 1.054426 | 9.998316 | 30 | |
| | 40 | 8.944129 | 239 | 8.945815 | 240 | 1.054185 | 9.998315 | 20 | |
| | 50 | 8.944368 | 238 | 8.946055 | 240 | 1.053945 | 9.998313 | 10 | |
| 3 | 0 | 8.944606 | 238 | 8.946295 | 240 | 1.053705 | 9.998311 | 0 | 57 |
| | 10 | 8.944844 | 239 | 8.946535 | 240 | 1.053465 | 9.998309 | 50 | |
| | 20 | 8.945083 | 238 | 8.946775 | 240 | 1.053225 | 9.998307 | 40 | |
| | 30 | 8.945321 | 237 | 8.947015 | 240 | 1.052985 | 9.998305 | 30 | |
| | 40 | 8.945558 | 238 | 8.947255 | 239 | 1.052745 | 9.998303 | 20 | |
| | 50 | 8.945796 | 238 | 8.947494 | 240 | 1.052506 | 9.998302 | 10 | |
| 4 | 0 | 8.946034 | 237 | 8.947734 | 239 | 1.052266 | 9.998300 | 0 | 56 |
| | 10 | 8.946271 | 237 | 8.947973 | 239 | 1.052027 | 9.998298 | 50 | |
| | 20 | 8.946508 | 237 | 8.948212 | 239 | 1.051788 | 9.998296 | 40 | |
| | 30 | 8.946745 | 237 | 8.948451 | 239 | 1.051549 | 9.998294 | 30 | |
| | 40 | 8.946982 | 237 | 8.948690 | 239 | 1.051310 | 9.998292 | 20 | |
| | 50 | 8.947219 | 237 | 8.948929 | 239 | 1.051071 | 9.998290 | 10 | |
| 5 | 0 | 8.947456 | 237 | 8.949168 | 238 | 1.050832 | 9.998289 | 0 | 55 |
| | 10 | 8.947693 | 236 | 8.949406 | 238 | 1.050594 | 9.998287 | 50 | |
| | 20 | 8.947929 | 237 | 8.949644 | 239 | 1.050356 | 9.998285 | 40 | |
| | 30 | 8.948166 | 236 | 8.949883 | 238 | 1.050117 | 9.998283 | 30 | |
| | 40 | 8.948402 | 236 | 8.950121 | 238 | 1.049879 | 9.998281 | 20 | |
| | 50 | 8.948638 | 236 | 8.950359 | 238 | 1.049641 | 9.998279 | 10 | |
| 6 | 0 | 8.948874 | 236 | 8.950597 | 237 | 1.049403 | 9.998277 | 0 | 54 |
| | 10 | 8.949110 | 235 | 8.950834 | 238 | 1.049166 | 9.998275 | 50 | |
| | 20 | 8.949345 | 236 | 8.951072 | 237 | 1.048928 | 9.998273 | 40 | |
| | 30 | 8.949581 | 236 | 8.951309 | 237 | 1.048691 | 9.998272 | 30 | |
| | 40 | 8.949817 | 235 | 8.951547 | 238 | 1.048453 | 9.998270 | 20 | |
| | 50 | 8.950052 | 235 | 8.951784 | 237 | 1.048216 | 9.998268 | 10 | |
| 7 | 0 | 8.950287 | 235 | 8.952021 | 237 | 1.047979 | 9.998266 | 0 | 53 |
| | 10 | 8.950522 | 235 | 8.952258 | 237 | 1.047742 | 9.998264 | 50 | |
| | 20 | 8.950757 | 235 | 8.952495 | 237 | 1.047505 | 9.998262 | 40 | |
| | 30 | 8.950992 | 235 | 8.952732 | 236 | 1.047268 | 9.998260 | 30 | |
| | 40 | 8.951227 | 234 | 8.952968 | 236 | 1.047032 | 9.998258 | 20 | |
| | 50 | 8.951461 | 234 | 8.953205 | 237 | 1.046795 | 9.998257 | 10 | |
| 8 | 0 | 8.951696 | 235 | 8.953441 | 236 | 1.046559 | 9.998255 | 0 | 52 |
| | 10 | 8.951930 | 234 | 8.953677 | 236 | 1.046323 | 9.998253 | 50 | |
| | 20 | 8.952164 | 234 | 8.953913 | 236 | 1.046087 | 9.998251 | 40 | |
| | 30 | 8.952398 | 234 | 8.954149 | 236 | 1.045851 | 9.998249 | 30 | |
| | 40 | 8.952632 | 234 | 8.954385 | 236 | 1.045615 | 9.998247 | 20 | |
| | 50 | 8.952866 | 234 | 8.954621 | 236 | 1.045379 | 9.998245 | 10 | |
| 9 | 0 | 8.953100 | 234 | 8.954856 | 235 | 1.045144 | 9.998243 | 0 | 51 |
| | 10 | 8.953333 | 233 | 8.955092 | 236 | 1.044908 | 9.998241 | 50 | |
| | 20 | 8.953567 | 234 | 8.955327 | 235 | 1.044673 | 9.998239 | 40 | |
| | 30 | 8.953800 | 233 | 8.955562 | 235 | 1.044438 | 9.998238 | 30 | |
| | 40 | 8.954033 | 233 | 8.955797 | 235 | 1.044203 | 9.998236 | 20 | |
| | 50 | 8.954266 | 233 | 8.956032 | 235 | 1.043968 | 9.998234 | 10 | |
| 10 | 0 | 8.954499 | 233 | 8.956267 | 235 | 1.043733 | 9.998232 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 10 | 0 | 8.954499 | 233 | 8.956267 | 235 | 1.043733 | 9.998232 | 0 | 50 |
| | 10 | 8.954732 | 233 | 8.956502 | 234 | 1.043498 | 9.998230 | 50 | |
| | 20 | 8.954965 | 232 | 8.956736 | 234 | 1.043264 | 9.998228 | 40 | |
| | 30 | 8.955197 | 232 | 8.956971 | 235 | 1.043029 | 9.998226 | 30 | |
| | 40 | 8.955429 | 233 | 8.957205 | 234 | 1.042795 | 9.998224 | 20 | |
| | 50 | 8.955662 | 232 | 8.957439 | 235 | 1.042561 | 9.998222 | 10 | |
| 11 | 0 | 8.955894 | 232 | 8.957674 | 234 | 1.042326 | 9.998220 | 0 | 49 |
| | 10 | 8.956126 | 232 | 8.957908 | 233 | 1.042092 | 9.998218 | 50 | |
| | 20 | 8.956358 | 232 | 8.958141 | 234 | 1.041859 | 9.998217 | 40 | |
| | 30 | 8.956590 | 232 | 8.958375 | 234 | 1.041625 | 9.998215 | 30 | |
| | 40 | 8.956821 | 231 | 8.958609 | 234 | 1.041391 | 9.998213 | 20 | |
| | 50 | 8.957053 | 231 | 8.958842 | 233 | 1.041158 | 9.998211 | 10 | |
| 12 | 0 | 8.957284 | 232 | 8.959075 | 234 | 1.040925 | 9.998209 | 0 | 48 |
| | 10 | 8.957516 | 231 | 8.959309 | 233 | 1.040691 | 9.998207 | 50 | |
| | 20 | 8.957747 | 231 | 8.959542 | 233 | 1.040458 | 9.998205 | 40 | |
| | 30 | 8.957978 | 231 | 8.959775 | 233 | 1.040225 | 9.998203 | 30 | |
| | 40 | 8.958209 | 231 | 8.960008 | 232 | 1.039992 | 9.998201 | 20 | |
| | 50 | 8.958440 | 230 | 8.960240 | 232 | 1.039760 | 9.998199 | 10 | |
| 13 | 0 | 8.958670 | 231 | 8.960473 | 232 | 1.039527 | 9.998197 | 0 | 47 |
| | 10 | 8.958901 | 230 | 8.960705 | 233 | 1.039295 | 9.998195 | 50 | |
| | 20 | 8.959131 | 230 | 8.960938 | 232 | 1.039062 | 9.998194 | 40 | |
| | 30 | 8.959362 | 230 | 8.961170 | 232 | 1.038830 | 9.998192 | 30 | |
| | 40 | 8.959592 | 230 | 8.961402 | 232 | 1.038598 | 9.998190 | 20 | |
| | 50 | 8.959822 | 230 | 8.961634 | 232 | 1.038366 | 9.998188 | 10 | |
| 14 | 0 | 8.960052 | 230 | 8.961866 | 232 | 1.038134 | 9.998186 | 0 | 46 |
| | 10 | 8.960282 | 229 | 8.962098 | 231 | 1.037902 | 9.998184 | 50 | |
| | 20 | 8.960511 | 229 | 8.962329 | 232 | 1.037671 | 9.998182 | 40 | |
| | 30 | 8.960741 | 229 | 8.962561 | 231 | 1.037439 | 9.998180 | 30 | |
| | 40 | 8.960970 | 229 | 8.962792 | 231 | 1.037208 | 9.998178 | 20 | |
| | 50 | 8.961200 | 229 | 8.963023 | 232 | 1.036977 | 9.998176 | 10 | |
| 15 | 0 | 8.961429 | 229 | 8.963255 | 231 | 1.036745 | 9.998174 | 0 | 45 |
| | 10 | 8.961658 | 229 | 8.963486 | 230 | 1.036514 | 9.998172 | 50 | |
| | 20 | 8.961887 | 229 | 8.963716 | 231 | 1.036284 | 9.998170 | 40 | |
| | 30 | 8.962116 | 228 | 8.963947 | 231 | 1.036053 | 9.998168 | 30 | |
| | 40 | 8.962344 | 229 | 8.964178 | 230 | 1.035822 | 9.998167 | 20 | |
| | 50 | 8.962573 | 228 | 8.964408 | 231 | 1.035592 | 9.998165 | 10 | |
| 16 | 0 | 8.962801 | 229 | 8.964639 | 230 | 1.035361 | 9.998163 | 0 | 44 |
| | 10 | 8.963030 | 228 | 8.964869 | 230 | 1.035131 | 9.998161 | 50 | |
| | 20 | 8.963258 | 228 | 8.965099 | 230 | 1.034901 | 9.998159 | 40 | |
| | 30 | 8.963486 | 228 | 8.965329 | 230 | 1.034671 | 9.998157 | 30 | |
| | 40 | 8.963714 | 228 | 8.965559 | 230 | 1.034441 | 9.998155 | 20 | |
| | 50 | 8.963942 | 228 | 8.965789 | 230 | 1.034211 | 9.998153 | 10 | |
| 17 | 0 | 8.964170 | 227 | 8.966019 | 229 | 1.033981 | 9.998151 | 0 | 43 |
| | 10 | 8.964397 | 228 | 8.966248 | 230 | 1.033752 | 9.998149 | 50 | |
| | 20 | 8.964625 | 228 | 8.966478 | 230 | 1.033522 | 9.998147 | 40 | |
| | 30 | 8.964852 | 228 | 8.966707 | 229 | 1.033293 | 9.998145 | 30 | |
| | 40 | 8.965080 | 227 | 8.966936 | 229 | 1.033064 | 9.998143 | 20 | |
| | 50 | 8.965307 | 227 | 8.967165 | 229 | 1.032835 | 9.998141 | 10 | |
| 18 | 0 | 8.965534 | 227 | 8.967394 | 229 | 1.032606 | 9.998139 | 0 | 42 |
| | 10 | 8.965761 | 226 | 8.967623 | 229 | 1.032377 | 9.998137 | 50 | |
| | 20 | 8.965987 | 226 | 8.967852 | 229 | 1.032148 | 9.998135 | 40 | |
| | 30 | 8.966214 | 227 | 8.968081 | 229 | 1.031919 | 9.998133 | 30 | |
| | 40 | 8.966441 | 226 | 8.968309 | 228 | 1.031691 | 9.998131 | 20 | |
| | 50 | 8.966667 | 226 | 8.968538 | 228 | 1.031462 | 9.998129 | 10 | |
| 19 | 0 | 8.966893 | 227 | 8.968766 | 228 | 1.031233 | 9.998127 | 0 | 41 |
| | 10 | 8.967120 | 226 | 8.968994 | 228 | 1.031006 | 9.998126 | 50 | |
| | 20 | 8.967346 | 226 | 8.969222 | 228 | 1.030778 | 9.998124 | 40 | |
| | 30 | 8.967572 | 226 | 8.969450 | 228 | 1.030550 | 9.998122 | 30 | |
| | 40 | 8.967797 | 225 | 8.969678 | 227 | 1.030322 | 9.998120 | 20 | |
| | 50 | 8.968023 | 226 | 8.969905 | 227 | 1.030095 | 9.998118 | 10 | |
| 20 | 0 | 8.968249 | 226 | 8.970133 | 228 | 1.029867 | 9.998116 | 0 | 40 |

233
1 23.3
2 46.6
3 69.9
4 93.2
5 116.5
6 139.8
7 163.1
8 186.4
9 209.7

231
1 23.1
2 46.2
3 69.3
4 92.4
5 115.5
6 138.6
7 161.7
8 184.8
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229
1 22.9
2 45.8
3 68.7
4 91.6
5 114.5
6 137.4
7 160.3
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227
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5 113.5
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225
1 22.5
2 45.0
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4 90.0
5 112.5
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7 157.5
8 180.0
9 202.5

| | ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|---------|----|----|----------|-----|----------|------|----------|----------|----|----|
| | 20 | o | 8.968249 | 225 | 8.970133 | 227 | I.029867 | 9.998116 | o | 40 |
| | | 10 | 8.968474 | 226 | 8.970360 | 228 | I.029640 | 9.998114 | 50 | |
| 228 | | 20 | 8.968700 | 227 | 8.970588 | 229 | I.029412 | 9.998112 | 40 | |
| 1 22.8 | | 30 | 8.968925 | 228 | 8.970815 | 230 | I.029185 | 9.998110 | 30 | |
| 2 45.6 | | 40 | 8.969150 | 229 | 8.971042 | 231 | I.028958 | 9.998108 | 20 | |
| 3 68.4 | | 50 | 8.969375 | 230 | 8.971269 | 232 | I.028731 | 9.998106 | 10 | |
| 4 91.2 | | | 8.969600 | 231 | 8.971496 | 233 | I.028504 | 9.998104 | o | 39 |
| 5 114.0 | | 10 | 8.969825 | 232 | 8.971723 | 234 | I.028277 | 9.998102 | 50 | |
| 6 136.8 | | 20 | 8.970049 | 233 | 8.971949 | 235 | I.028051 | 9.998100 | 40 | |
| 7 159.6 | | 30 | 8.970274 | 234 | 8.972176 | 236 | I.027824 | 9.998098 | 30 | |
| 8 182.4 | | 40 | 8.970498 | 235 | 8.972402 | 237 | I.027598 | 9.998096 | 20 | |
| 9 205.2 | | 50 | 8.970723 | 236 | 8.972628 | 238 | I.027372 | 9.998094 | 10 | |
| | 22 | o | 8.970947 | 237 | 8.972855 | 239 | I.027145 | 9.998092 | o | 38 |
| | | 10 | 8.971171 | 238 | 8.973081 | 240 | I.026919 | 9.998090 | 50 | |
| 226 | | 20 | 8.971395 | 239 | 8.973307 | 241 | I.026693 | 9.998088 | 40 | |
| 1 22.6 | | 30 | 8.971619 | 240 | 8.973532 | 242 | I.026468 | 9.998086 | 30 | |
| 2 45.2 | | 40 | 8.971842 | 241 | 8.973758 | 243 | I.026242 | 9.998084 | 20 | |
| 3 67.8 | | 50 | 8.972066 | 242 | 8.973984 | 244 | I.026016 | 9.998082 | 10 | |
| 4 90.4 | | | 8.972289 | 243 | 8.974209 | 245 | I.025791 | 9.998080 | o | 37 |
| 5 113.0 | | 10 | 8.972513 | 244 | 8.974435 | 246 | I.025565 | 9.998078 | 50 | |
| 6 135.6 | | 20 | 8.972736 | 245 | 8.974660 | 247 | I.025340 | 9.998076 | 40 | |
| 7 158.2 | | 30 | 8.972959 | 246 | 8.974885 | 248 | I.025115 | 9.998074 | 30 | |
| 8 180.8 | | 40 | 8.973182 | 247 | 8.975110 | 249 | I.024890 | 9.998072 | 20 | |
| 9 203.4 | | 50 | 8.973405 | 248 | 8.975335 | 250 | I.024665 | 9.998070 | 10 | |
| | 24 | o | 8.973628 | 249 | 8.975560 | 251 | I.024440 | 9.998068 | o | 36 |
| | | 10 | 8.973851 | 250 | 8.975784 | 252 | I.024216 | 9.998066 | 50 | |
| 224 | | 20 | 8.974073 | 251 | 8.976009 | 253 | I.023991 | 9.998064 | 40 | |
| 1 22.4 | | 30 | 8.974296 | 252 | 8.976233 | 254 | I.023767 | 9.998062 | 30 | |
| 2 44.8 | | 40 | 8.974518 | 253 | 8.976458 | 255 | I.023542 | 9.998060 | 20 | |
| 3 67.2 | | 50 | 8.974740 | 254 | 8.976682 | 256 | I.023318 | 9.998058 | 10 | |
| 4 89.6 | | | 8.974962 | 255 | 8.976906 | 257 | I.023094 | 9.998056 | o | 35 |
| 5 112.0 | | 10 | 8.975184 | 256 | 8.977130 | 258 | I.022870 | 9.998054 | 50 | |
| 6 134.4 | | 20 | 8.975406 | 257 | 8.977354 | 259 | I.022646 | 9.998052 | 40 | |
| 7 156.8 | | 30 | 8.975628 | 258 | 8.977578 | 260 | I.022422 | 9.998050 | 30 | |
| 8 179.2 | | 40 | 8.975850 | 259 | 8.977801 | 261 | I.022199 | 9.998048 | 20 | |
| 9 201.6 | | 50 | 8.976071 | 260 | 8.978025 | 262 | I.021975 | 9.998046 | 10 | |
| | 26 | o | 8.976293 | 261 | 8.978248 | 263 | I.021751 | 9.998044 | o | 34 |
| | | 10 | 8.976514 | 262 | 8.978472 | 264 | I.021527 | 9.998042 | 50 | |
| 222 | | 20 | 8.976735 | 263 | 8.978695 | 265 | I.021303 | 9.998040 | 40 | |
| 1 22.2 | | 30 | 8.976956 | 264 | 8.978918 | 266 | I.021078 | 9.998038 | 30 | |
| 2 44.2 | | 40 | 8.977177 | 265 | 8.979141 | 267 | I.020853 | 9.998036 | 20 | |
| 3 66.6 | | 50 | 8.977398 | 266 | 8.979364 | 268 | I.020628 | 9.998034 | 10 | |
| 4 88.8 | | | 8.977619 | 267 | 8.979586 | 269 | I.020404 | 9.998032 | o | 33 |
| 5 111.0 | | 10 | 8.977839 | 268 | 8.979809 | 270 | I.020179 | 9.998030 | 50 | |
| 6 133.2 | | 20 | 8.978060 | 269 | 8.980032 | 271 | I.019958 | 9.998028 | 40 | |
| 7 155.4 | | 30 | 8.978280 | 270 | 8.980254 | 272 | I.019746 | 9.998026 | 30 | |
| 8 177.6 | | 40 | 8.978501 | 271 | 8.980476 | 273 | I.019524 | 9.998024 | 20 | |
| 9 199.8 | | 50 | 8.978721 | 272 | 8.980699 | 274 | I.019302 | 9.998022 | 10 | |
| | 28 | o | 8.978941 | 273 | 8.980921 | 275 | I.019079 | 9.998020 | o | 32 |
| | | 10 | 8.979161 | 274 | 8.981143 | 276 | I.018857 | 9.998018 | 50 | |
| 221 | | 20 | 8.979381 | 275 | 8.981364 | 277 | I.018636 | 9.998016 | 40 | |
| 1 22.1 | | 30 | 8.979600 | 276 | 8.981586 | 278 | I.018414 | 9.998014 | 30 | |
| 2 44.2 | | 40 | 8.979820 | 277 | 8.981808 | 279 | I.018192 | 9.998012 | 20 | |
| 3 66.3 | | 50 | 8.980039 | 278 | 8.982029 | 280 | I.017971 | 9.998010 | 10 | |
| 4 88.4 | | | 8.980259 | 279 | 8.982251 | 281 | I.017750 | 9.998008 | o | 31 |
| 5 110.5 | | 10 | 8.980478 | 280 | 8.982472 | 282 | I.017529 | 9.998006 | 50 | |
| 6 132.6 | | 20 | 8.980697 | 281 | 8.982693 | 283 | I.017307 | 9.998004 | 40 | |
| 7 154.7 | | 30 | 8.980916 | 282 | 8.982914 | 284 | I.017086 | 9.998002 | 30 | |
| 8 176.8 | | 40 | 8.981135 | 283 | 8.983135 | 285 | I.016865 | 9.998000 | 20 | |
| 9 198.9 | | 50 | 8.981354 | 284 | 8.983356 | 286 | I.016644 | 9.997998 | 10 | |
| | 30 | o | 8.981573 | 285 | 8.983577 | 287 | I.016423 | 9.997996 | o | 30 |
| | | | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 30 | 0 | 8.981573 | 218 | 8.983577 | 221 | 1.016423 | 9.997996 | 0 | 30 |
| | 10 | 8.981791 | 219 | 8.983798 | 220 | 1.016202 | 9.997994 | 50 | |
| | 20 | 8.982010 | 218 | 8.984018 | 220 | 1.015982 | 9.997992 | 40 | |
| | 30 | 8.982228 | 219 | 8.984238 | 221 | 1.015762 | 9.997990 | 30 | |
| | 40 | 8.982447 | 218 | 8.984459 | 220 | 1.015541 | 9.997988 | 20 | |
| | 50 | 8.982665 | 218 | 8.984679 | 220 | 1.015321 | 9.997986 | 10 | |
| 31 | 0 | 8.982883 | 218 | 8.984899 | 220 | 1.015101 | 9.997984 | 0 | 29 |
| | 10 | 8.983101 | 218 | 8.985119 | 220 | 1.014881 | 9.997982 | 50 | |
| | 20 | 8.983319 | 217 | 8.985339 | 220 | 1.014661 | 9.997980 | 40 | |
| | 30 | 8.983536 | 218 | 8.985559 | 219 | 1.014441 | 9.997978 | 30 | |
| | 40 | 8.983754 | 218 | 8.985778 | 220 | 1.014222 | 9.997976 | 20 | |
| | 50 | 8.983972 | 217 | 8.985998 | 219 | 1.014002 | 9.997974 | 10 | |
| 32 | 0 | 8.984189 | 217 | 8.986217 | 220 | 1.013783 | 9.997972 | 0 | 28 |
| | 10 | 8.984406 | 217 | 8.986437 | 219 | 1.013563 | 9.997970 | 50 | |
| | 20 | 8.984623 | 217 | 8.986656 | 219 | 1.013344 | 9.997967 | 40 | |
| | 30 | 8.984840 | 217 | 8.986875 | 219 | 1.013125 | 9.997965 | 30 | |
| | 40 | 8.985057 | 217 | 8.987094 | 219 | 1.012906 | 9.997963 | 20 | |
| | 50 | 8.985274 | 217 | 8.987313 | 219 | 1.012687 | 9.997961 | 10 | |
| 33 | 0 | 8.985491 | 217 | 8.987532 | 218 | 1.012468 | 9.997959 | 0 | 27 |
| | 10 | 8.985708 | 216 | 8.987750 | 219 | 1.012250 | 9.997957 | 50 | |
| | 20 | 8.985924 | 217 | 8.987969 | 218 | 1.012031 | 9.997955 | 40 | |
| | 30 | 8.986141 | 216 | 8.988187 | 219 | 1.011813 | 9.997953 | 30 | |
| | 40 | 8.986357 | 216 | 8.988406 | 218 | 1.011594 | 9.997951 | 20 | |
| | 50 | 8.986573 | 216 | 8.988624 | 218 | 1.011376 | 9.997949 | 10 | |
| 34 | 0 | 8.986789 | 216 | 8.988842 | 218 | 1.011158 | 9.997947 | 0 | 26 |
| | 10 | 8.987005 | 216 | 8.989060 | 218 | 1.010940 | 9.997945 | 50 | |
| | 20 | 8.987221 | 216 | 8.989278 | 218 | 1.010722 | 9.997943 | 40 | |
| | 30 | 8.987437 | 216 | 8.989496 | 218 | 1.010504 | 9.997941 | 30 | |
| | 40 | 8.987652 | 215 | 8.989714 | 218 | 1.010286 | 9.997939 | 20 | |
| | 50 | 8.987868 | 216 | 8.989931 | 217 | 1.010069 | 9.997937 | 10 | |
| 35 | 0 | 8.988083 | 215 | 8.990149 | 217 | 1.009851 | 9.997935 | 0 | 25 |
| | 10 | 8.988299 | 215 | 8.990366 | 217 | 1.009634 | 9.997933 | 50 | |
| | 20 | 8.988514 | 215 | 8.990583 | 218 | 1.009417 | 9.997931 | 40 | |
| | 30 | 8.988729 | 215 | 8.990801 | 217 | 1.009199 | 9.997929 | 30 | |
| | 40 | 8.988944 | 215 | 8.991018 | 217 | 1.008982 | 9.997926 | 20 | |
| | 50 | 8.989159 | 215 | 8.991235 | 216 | 1.008765 | 9.997924 | 10 | |
| 36 | 0 | 8.989374 | 214 | 8.991451 | 217 | 1.008549 | 9.997922 | 0 | 24 |
| | 10 | 8.989588 | 215 | 8.991668 | 217 | 1.008332 | 9.997920 | 50 | |
| | 20 | 8.989803 | 214 | 8.991885 | 216 | 1.008115 | 9.997918 | 40 | |
| | 30 | 8.990017 | 214 | 8.992101 | 217 | 1.007899 | 9.997916 | 30 | |
| | 40 | 8.990232 | 215 | 8.992318 | 216 | 1.007682 | 9.997914 | 20 | |
| | 50 | 8.990446 | 214 | 8.992534 | 216 | 1.007465 | 9.997912 | 10 | |
| 37 | 0 | 8.990660 | 214 | 8.992750 | 216 | 1.007248 | 9.997910 | 0 | 23 |
| | 10 | 8.990874 | 214 | 8.992966 | 216 | 1.007034 | 9.997908 | 50 | |
| | 20 | 8.991088 | 214 | 8.993182 | 216 | 1.006818 | 9.997906 | 40 | |
| | 30 | 8.991302 | 214 | 8.993398 | 216 | 1.006602 | 9.997904 | 30 | |
| | 40 | 8.991516 | 214 | 8.993614 | 216 | 1.006386 | 9.997902 | 20 | |
| | 50 | 8.991729 | 213 | 8.993830 | 216 | 1.006170 | 9.997900 | 10 | |
| 38 | 0 | 8.991943 | 213 | 8.994045 | 215 | 1.005955 | 9.997897 | 0 | 22 |
| | 10 | 8.992156 | 214 | 8.994261 | 216 | 1.005739 | 9.997895 | 50 | |
| | 20 | 8.992370 | 213 | 8.994476 | 215 | 1.005524 | 9.997893 | 40 | |
| | 30 | 8.992583 | 213 | 8.994692 | 216 | 1.005308 | 9.997891 | 30 | |
| | 40 | 8.992796 | 213 | 8.994907 | 215 | 1.005093 | 9.997889 | 20 | |
| | 50 | 8.993009 | 213 | 8.995122 | 215 | 1.004878 | 9.997887 | 10 | |
| 39 | 0 | 8.993222 | 213 | 8.995337 | 215 | 1.004663 | 9.997885 | 0 | 21 |
| | 10 | 8.993435 | 213 | 8.995552 | 215 | 1.004448 | 9.997883 | 50 | |
| | 20 | 8.993647 | 212 | 8.995766 | 214 | 1.004234 | 9.997881 | 40 | |
| | 30 | 8.993860 | 213 | 8.995981 | 215 | 1.004019 | 9.997879 | 30 | |
| | 40 | 8.994072 | 212 | 8.996196 | 215 | 1.003804 | 9.997877 | 20 | |
| | 50 | 8.994285 | 213 | 8.996410 | 214 | 1.003590 | 9.997875 | 10 | |
| 40 | 0 | 8.994497 | 212 | 8.996624 | 214 | 1.003376 | 9.997872 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

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5 107.5
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7 150.5
8 172.0
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| | | Sin | d. | Tang | d.c. | Cotg | Cos | | |
|----|----|----------|-----|----------|------|----------|----------|----|----|
| 40 | o | 8.994497 | 212 | 8.996624 | 215 | 1.003376 | 9.997872 | o | 20 |
| | 10 | 8.994709 | 212 | 8.996839 | 214 | 1.003161 | 9.997870 | 50 | |
| | 20 | 8.994921 | 212 | 8.997053 | 214 | 1.002947 | 9.997868 | 40 | |
| | 30 | 8.995133 | 212 | 8.997267 | 214 | 1.002733 | 9.997866 | 30 | |
| | 40 | 8.995345 | 211 | 8.997481 | 214 | 1.002519 | 9.997864 | 20 | |
| | 50 | 8.995556 | 212 | 8.997694 | 213 | 1.002306 | 9.997862 | 10 | |
| 41 | o | 8.995768 | 212 | 8.997908 | 214 | 1.002092 | 9.997860 | o | 19 |
| | 10 | 8.995980 | 211 | 8.998122 | 213 | 1.001878 | 9.997858 | 50 | |
| | 20 | 8.996191 | 211 | 8.998335 | 214 | 1.001665 | 9.997856 | 40 | |
| | 30 | 8.996402 | 212 | 8.998549 | 213 | 1.001451 | 9.997854 | 30 | |
| | 40 | 8.996614 | 212 | 8.998762 | 213 | 1.001238 | 9.997852 | 20 | |
| | 50 | 8.996825 | 211 | 8.998975 | 213 | 1.001025 | 9.997849 | 10 | |
| 42 | o | 8.997036 | 211 | 8.999188 | 213 | 1.000812 | 9.997847 | o | 18 |
| | 10 | 8.997247 | 210 | 8.999401 | 213 | 1.000599 | 9.997845 | 50 | |
| | 20 | 8.997457 | 211 | 8.999614 | 213 | 1.000386 | 9.997843 | 40 | |
| | 30 | 8.997668 | 211 | 8.999827 | 213 | 1.000173 | 9.997841 | 30 | |
| | 40 | 8.997879 | 210 | 9.000040 | 212 | 0.999960 | 9.997839 | 20 | |
| | 50 | 8.998089 | 210 | 9.000252 | 213 | 0.999748 | 9.997837 | 10 | |
| 43 | o | 8.998299 | 211 | 9.000465 | 212 | 0.999535 | 9.997835 | o | 17 |
| | 10 | 8.998510 | 210 | 9.000677 | 212 | 0.999323 | 9.997833 | 50 | |
| | 20 | 8.998720 | 210 | 9.000889 | 212 | 0.999111 | 9.997830 | 40 | |
| | 30 | 8.998930 | 210 | 9.001102 | 212 | 0.998898 | 9.997828 | 30 | |
| | 40 | 8.999140 | 210 | 9.001314 | 212 | 0.998686 | 9.997826 | 20 | |
| | 50 | 8.999350 | 210 | 9.001526 | 212 | 0.998474 | 9.997824 | 10 | |
| 44 | o | 8.999560 | 209 | 9.001738 | 211 | 0.998262 | 9.997822 | o | 16 |
| | 10 | 8.999769 | 210 | 9.001949 | 212 | 0.998051 | 9.997820 | 50 | |
| | 20 | 8.999979 | 209 | 9.002161 | 212 | 0.997839 | 9.997818 | 40 | |
| | 30 | 9.000188 | 210 | 9.002373 | 211 | 0.997627 | 9.997816 | 30 | |
| | 40 | 9.000398 | 210 | 9.002584 | 211 | 0.997416 | 9.997814 | 20 | |
| | 50 | 9.000607 | 209 | 9.002795 | 212 | 0.997205 | 9.997811 | 10 | |
| 45 | o | 9.000816 | 209 | 9.003007 | 211 | 0.996993 | 9.997809 | o | 15 |
| | 10 | 9.001025 | 209 | 9.003218 | 211 | 0.996782 | 9.997807 | 50 | |
| | 20 | 9.001234 | 209 | 9.003429 | 211 | 0.996571 | 9.997805 | 40 | |
| | 30 | 9.001443 | 209 | 9.003640 | 211 | 0.996360 | 9.997803 | 30 | |
| | 40 | 9.001652 | 209 | 9.003851 | 211 | 0.996149 | 9.997801 | 20 | |
| | 50 | 9.001860 | 208 | 9.004061 | 210 | 0.995938 | 9.997799 | 10 | |
| 46 | o | 9.002069 | 208 | 9.004272 | 211 | 0.995728 | 9.997797 | o | 14 |
| | 10 | 9.002277 | 209 | 9.004483 | 210 | 0.995517 | 9.997794 | 50 | |
| | 20 | 9.002486 | 208 | 9.004693 | 211 | 0.995307 | 9.997792 | 40 | |
| | 30 | 9.002694 | 208 | 9.004904 | 211 | 0.995096 | 9.997790 | 30 | |
| | 40 | 9.002902 | 208 | 9.005114 | 210 | 0.994886 | 9.997788 | 20 | |
| | 50 | 9.003110 | 208 | 9.005324 | 210 | 0.994676 | 9.997786 | 10 | |
| 47 | o | 9.003318 | 208 | 9.005534 | 210 | 0.994466 | 9.997784 | o | 13 |
| | 10 | 9.003526 | 207 | 9.005744 | 210 | 0.994256 | 9.997782 | 50 | |
| | 20 | 9.003733 | 207 | 9.005954 | 210 | 0.994046 | 9.997780 | 40 | |
| | 30 | 9.003941 | 208 | 9.006164 | 210 | 0.993836 | 9.997777 | 30 | |
| | 40 | 9.004149 | 208 | 9.006373 | 209 | 0.993627 | 9.997775 | 20 | |
| | 50 | 9.004356 | 207 | 9.006583 | 210 | 0.993417 | 9.997773 | 10 | |
| 48 | o | 9.004563 | 208 | 9.006792 | 209 | 0.993208 | 9.997771 | o | 12 |
| | 10 | 9.004771 | 207 | 9.007002 | 209 | 0.992998 | 9.997769 | 50 | |
| | 20 | 9.004978 | 207 | 9.007211 | 209 | 0.992789 | 9.997767 | 40 | |
| | 30 | 9.005185 | 207 | 9.007420 | 209 | 0.992580 | 9.997765 | 30 | |
| | 40 | 9.005392 | 207 | 9.007629 | 209 | 0.992371 | 9.997762 | 20 | |
| | 50 | 9.005599 | 207 | 9.007838 | 209 | 0.992162 | 9.997760 | 10 | |
| 49 | o | 9.005805 | 206 | 9.008047 | 209 | 0.991953 | 9.997758 | o | 11 |
| | 10 | 9.006012 | 206 | 9.008256 | 209 | 0.991744 | 9.997756 | 50 | |
| | 20 | 9.006218 | 206 | 9.008465 | 209 | 0.991535 | 9.997754 | 40 | |
| | 30 | 9.006425 | 207 | 9.008673 | 208 | 0.991327 | 9.997752 | 30 | |
| | 40 | 9.006631 | 206 | 9.008882 | 209 | 0.991118 | 9.997750 | 20 | |
| | 50 | 9.006837 | 206 | 9.009090 | 208 | 0.990910 | 9.997747 | 10 | |
| 50 | o | 9.007044 | 207 | 9.009298 | 208 | 0.990702 | 9.997745 | o | 10 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 50 | 0 | 9.007044 | 206 | 9.009298 | 209 | 0.990702 | 9.997745 | 0 | 10 |
| | 10 | 9.007250 | 206 | 9.009507 | 208 | 0.990493 | 9.997743 | 50 | |
| | 20 | 9.007456 | 205 | 9.009715 | 208 | 0.990285 | 9.997741 | 40 | |
| | 30 | 9.007661 | 205 | 9.009923 | 208 | 0.990077 | 9.997739 | 30 | |
| | 40 | 9.007867 | 206 | 9.010131 | 207 | 0.989869 | 9.997737 | 20 | |
| | 50 | 9.008073 | 206 | 9.010338 | 207 | 0.989662 | 9.997735 | 10 | |
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| | 10 | 9.008484 | 205 | 9.010754 | 207 | 0.989246 | 9.997730 | 50 | |
| | 20 | 9.008689 | 205 | 9.010961 | 208 | 0.989039 | 9.997728 | 40 | |
| | 30 | 9.008894 | 206 | 9.011169 | 207 | 0.988831 | 9.997726 | 30 | |
| | 40 | 9.009100 | 205 | 9.011376 | 207 | 0.988624 | 9.997724 | 20 | |
| | 50 | 9.009305 | 205 | 9.011583 | 207 | 0.988417 | 9.997722 | 10 | |
| 52 | 0 | 9.009510 | 205 | 9.011790 | 207 | 0.988210 | 9.997719 | 0 | 8 |
| | 10 | 9.009715 | 204 | 9.011997 | 207 | 0.988003 | 9.997717 | 50 | |
| | 20 | 9.009919 | 205 | 9.012204 | 207 | 0.987796 | 9.997715 | 40 | |
| | 30 | 9.010124 | 205 | 9.012411 | 207 | 0.987589 | 9.997713 | 30 | |
| | 40 | 9.010329 | 204 | 9.012618 | 206 | 0.987382 | 9.997711 | 20 | |
| | 50 | 9.010533 | 204 | 9.012824 | 207 | 0.987176 | 9.997709 | 10 | |
| 53 | 0 | 9.010737 | 205 | 9.013031 | 206 | 0.986969 | 9.997706 | 0 | 7 |
| | 10 | 9.010942 | 204 | 9.013237 | 207 | 0.986763 | 9.997704 | 50 | |
| | 20 | 9.011146 | 204 | 9.013444 | 206 | 0.986556 | 9.997702 | 40 | |
| | 30 | 9.011350 | 204 | 9.013650 | 206 | 0.986350 | 9.997700 | 30 | |
| | 40 | 9.011554 | 204 | 9.013856 | 206 | 0.986144 | 9.997698 | 20 | |
| | 50 | 9.011758 | 204 | 9.014062 | 206 | 0.985938 | 9.997696 | 10 | |
| 54 | 0 | 9.011962 | 203 | 9.014268 | 206 | 0.985732 | 9.997693 | 0 | 6 |
| | 10 | 9.012165 | 204 | 9.014474 | 206 | 0.985526 | 9.997691 | 50 | |
| | 20 | 9.012369 | 203 | 9.014680 | 206 | 0.985320 | 9.997689 | 40 | |
| | 30 | 9.012572 | 203 | 9.014886 | 205 | 0.985114 | 9.997687 | 30 | |
| | 40 | 9.012776 | 203 | 9.015091 | 206 | 0.984909 | 9.997685 | 20 | |
| | 50 | 9.012979 | 203 | 9.015297 | 205 | 0.984703 | 9.997682 | 10 | |
| 55 | 0 | 9.013182 | 203 | 9.015502 | 205 | 0.984498 | 9.997680 | 0 | 5 |
| | 10 | 9.013385 | 203 | 9.015707 | 206 | 0.984293 | 9.997678 | 50 | |
| | 20 | 9.013588 | 203 | 9.015913 | 205 | 0.984087 | 9.997676 | 40 | |
| | 30 | 9.013791 | 203 | 9.016118 | 205 | 0.983882 | 9.997674 | 30 | |
| | 40 | 9.013994 | 203 | 9.016323 | 205 | 0.983677 | 9.997672 | 20 | |
| | 50 | 9.014197 | 203 | 9.016528 | 205 | 0.983472 | 9.997669 | 10 | |
| 56 | 0 | 9.014400 | 202 | 9.016732 | 204 | 0.983268 | 9.997667 | 0 | 4 |
| | 10 | 9.014602 | 203 | 9.016937 | 205 | 0.983063 | 9.997665 | 50 | |
| | 20 | 9.014805 | 202 | 9.017142 | 205 | 0.982858 | 9.997663 | 40 | |
| | 30 | 9.015007 | 202 | 9.017346 | 204 | 0.982654 | 9.997661 | 30 | |
| | 40 | 9.015209 | 202 | 9.017551 | 205 | 0.982449 | 9.997658 | 20 | |
| | 50 | 9.015411 | 202 | 9.017755 | 204 | 0.982245 | 9.997656 | 10 | |
| 57 | 0 | 9.015613 | 202 | 9.017959 | 204 | 0.982041 | 9.997654 | 0 | 3 |
| | 10 | 9.015815 | 202 | 9.018164 | 205 | 0.981836 | 9.997652 | 50 | |
| | 20 | 9.016017 | 202 | 9.018368 | 204 | 0.981632 | 9.997650 | 40 | |
| | 30 | 9.016219 | 202 | 9.018572 | 204 | 0.981428 | 9.997647 | 30 | |
| | 40 | 9.016421 | 202 | 9.018776 | 204 | 0.981224 | 9.997645 | 20 | |
| | 50 | 9.016622 | 201 | 9.018979 | 203 | 0.981021 | 9.997643 | 10 | |
| 58 | 0 | 9.016824 | 201 | 9.019183 | 204 | 0.980817 | 9.997641 | 0 | 2 |
| | 10 | 9.017025 | 202 | 9.019387 | 204 | 0.980613 | 9.997639 | 50 | |
| | 20 | 9.017227 | 201 | 9.019590 | 203 | 0.980410 | 9.997636 | 40 | |
| | 30 | 9.017428 | 201 | 9.019794 | 204 | 0.980206 | 9.997634 | 30 | |
| | 40 | 9.017629 | 201 | 9.019997 | 203 | 0.980003 | 9.997632 | 20 | |
| | 50 | 9.017830 | 201 | 9.020200 | 203 | 0.979800 | 9.997630 | 10 | |
| 59 | 0 | 9.018031 | 201 | 9.020403 | 203 | 0.979597 | 9.997628 | 0 | 1 |
| | 10 | 9.018232 | 201 | 9.020606 | 203 | 0.979394 | 9.997625 | 50 | |
| | 20 | 9.018433 | 200 | 9.020809 | 203 | 0.979191 | 9.997623 | 40 | |
| | 30 | 9.018633 | 200 | 9.021012 | 203 | 0.978988 | 9.997621 | 30 | |
| | 40 | 9.018834 | 201 | 9.021215 | 203 | 0.978785 | 9.997619 | 20 | |
| | 50 | 9.019034 | 200 | 9.021418 | 203 | 0.978582 | 9.997617 | 10 | |
| 60 | 0 | 9.019235 | 201 | 9.021620 | 202 | 0.978380 | 9.997614 | 0 | 0 |

207
1 20.7
2 41.4
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| | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|------|----------|----------|----|----|
| 0 | 0 | 9.019235 | 200 | 9.021620 | 203 | 0.978380 | 9.997614 | 0 | 60 |
| | 10 | 9.019435 | 200 | 9.021823 | 202 | 0.978177 | 9.997612 | 50 | |
| | 20 | 9.019635 | 200 | 9.022025 | 202 | 0.977975 | 9.997610 | 40 | |
| | 30 | 9.019835 | 200 | 9.022227 | 203 | 0.977773 | 9.997608 | 30 | |
| | 40 | 9.020035 | 200 | 9.022430 | 202 | 0.977570 | 9.997605 | 20 | |
| | 50 | 9.020235 | 200 | 9.022632 | 202 | 0.977368 | 9.997603 | 10 | |
| 1 | 0 | 9.020435 | 200 | 9.022834 | 202 | 0.977166 | 9.997601 | 0 | 59 |
| | 10 | 9.020635 | 199 | 9.023036 | 202 | 0.976964 | 9.997599 | 50 | |
| | 20 | 9.020834 | 199 | 9.023238 | 201 | 0.976762 | 9.997597 | 40 | |
| | 30 | 9.021034 | 199 | 9.023439 | 202 | 0.976561 | 9.997594 | 30 | |
| | 40 | 9.021233 | 200 | 9.023641 | 202 | 0.976359 | 9.997592 | 20 | |
| | 50 | 9.021433 | 199 | 9.023843 | 201 | 0.976157 | 9.997590 | 10 | |
| 2 | 0 | 9.021632 | 199 | 9.024044 | 201 | 0.975956 | 9.997588 | 0 | 58 |
| | 10 | 9.021831 | 199 | 9.024245 | 202 | 0.975755 | 9.997585 | 50 | |
| | 20 | 9.022030 | 199 | 9.024447 | 201 | 0.975553 | 9.997583 | 40 | |
| | 30 | 9.022229 | 199 | 9.024648 | 201 | 0.975352 | 9.997581 | 30 | |
| | 40 | 9.022428 | 199 | 9.024849 | 201 | 0.975151 | 9.997579 | 20 | |
| | 50 | 9.022627 | 198 | 9.025050 | 201 | 0.974950 | 9.997577 | 10 | |
| 3 | 0 | 9.022825 | 199 | 9.025251 | 201 | 0.974749 | 9.997574 | 0 | 57 |
| | 10 | 9.023024 | 199 | 9.025452 | 201 | 0.974548 | 9.997572 | 50 | |
| | 20 | 9.023223 | 199 | 9.025653 | 200 | 0.974347 | 9.997570 | 40 | |
| | 30 | 9.023421 | 198 | 9.025853 | 201 | 0.974147 | 9.997568 | 30 | |
| | 40 | 9.023619 | 199 | 9.026054 | 200 | 0.973946 | 9.997565 | 20 | |
| | 50 | 9.023818 | 198 | 9.026254 | 201 | 0.973746 | 9.997563 | 10 | |
| 4 | 0 | 9.024016 | 198 | 9.026455 | 201 | 0.973545 | 9.997561 | 0 | 56 |
| | 10 | 9.024214 | 198 | 9.026655 | 200 | 0.973345 | 9.997559 | 50 | |
| | 20 | 9.024412 | 198 | 9.026855 | 200 | 0.973145 | 9.997556 | 40 | |
| | 30 | 9.024610 | 198 | 9.027055 | 200 | 0.972945 | 9.997554 | 30 | |
| | 40 | 9.024807 | 197 | 9.027255 | 200 | 0.972745 | 9.997552 | 20 | |
| | 50 | 9.025005 | 198 | 9.027455 | 200 | 0.972545 | 9.997550 | 10 | |
| 5 | 0 | 9.025203 | 197 | 9.027655 | 200 | 0.972345 | 9.997547 | 0 | 55 |
| | 10 | 9.025400 | 198 | 9.027855 | 200 | 0.972145 | 9.997545 | 50 | |
| | 20 | 9.025598 | 197 | 9.028055 | 199 | 0.971945 | 9.997543 | 40 | |
| | 30 | 9.025795 | 197 | 9.028254 | 200 | 0.971746 | 9.997541 | 30 | |
| | 40 | 9.025992 | 197 | 9.028454 | 199 | 0.971546 | 9.997539 | 20 | |
| | 50 | 9.026189 | 197 | 9.028653 | 199 | 0.971347 | 9.997537 | 10 | |
| 6 | 0 | 9.026386 | 197 | 9.028852 | 200 | 0.971148 | 9.997534 | 0 | 54 |
| | 10 | 9.026583 | 197 | 9.029052 | 199 | 0.970948 | 9.997532 | 50 | |
| | 20 | 9.026780 | 197 | 9.029251 | 199 | 0.970749 | 9.997530 | 40 | |
| | 30 | 9.026977 | 197 | 9.029450 | 199 | 0.970550 | 9.997527 | 30 | |
| | 40 | 9.027174 | 197 | 9.029649 | 199 | 0.970351 | 9.997525 | 20 | |
| | 50 | 9.027370 | 196 | 9.029848 | 199 | 0.970152 | 9.997523 | 10 | |
| 7 | 0 | 9.027567 | 197 | 9.030046 | 198 | 0.969951 | 9.997520 | 0 | 53 |
| | 10 | 9.027763 | 196 | 9.030245 | 199 | 0.969751 | 9.997518 | 50 | |
| | 20 | 9.027960 | 197 | 9.030444 | 199 | 0.969556 | 9.997516 | 40 | |
| | 30 | 9.028156 | 196 | 9.030642 | 198 | 0.969358 | 9.997514 | 30 | |
| | 40 | 9.028352 | 196 | 9.030841 | 199 | 0.969159 | 9.997511 | 20 | |
| | 50 | 9.028548 | 196 | 9.031039 | 198 | 0.968961 | 9.997509 | 10 | |
| 8 | 0 | 9.028744 | 196 | 9.031237 | 198 | 0.968763 | 9.997507 | 0 | 52 |
| | 10 | 9.028940 | 196 | 9.031435 | 198 | 0.968565 | 9.997505 | 50 | |
| | 20 | 9.029136 | 196 | 9.031633 | 198 | 0.968367 | 9.997502 | 40 | |
| | 30 | 9.029332 | 196 | 9.031831 | 198 | 0.968169 | 9.997500 | 30 | |
| | 40 | 9.029527 | 195 | 9.032029 | 198 | 0.967971 | 9.997498 | 20 | |
| | 50 | 9.029723 | 196 | 9.032227 | 198 | 0.967773 | 9.997496 | 10 | |
| 9 | 0 | 9.029918 | 195 | 9.032425 | 198 | 0.967575 | 9.997493 | 0 | 51 |
| | 10 | 9.030114 | 196 | 9.032623 | 197 | 0.967377 | 9.997491 | 50 | |
| | 20 | 9.030309 | 195 | 9.032820 | 198 | 0.967180 | 9.997489 | 40 | |
| | 30 | 9.030504 | 195 | 9.033017 | 197 | 0.966983 | 9.997487 | 30 | |
| | 40 | 9.030699 | 195 | 9.033215 | 198 | 0.966785 | 9.997484 | 20 | |
| | 50 | 9.030894 | 195 | 9.033412 | 197 | 0.966588 | 9.997482 | 10 | |
| 10 | 0 | 9.031089 | 195 | 9.033609 | 197 | 0.966391 | 9.997480 | 0 | 50 |
| | " | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 10 | 0 | 9.031089 | 195 | 9.033609 | 197 | 0.966391 | 9.997480 | 0 | 50 |
| | 10 | 9.031284 | 195 | 9.033806 | 197 | 0.966194 | 9.997477 | 50 | |
| | 20 | 9.031479 | 194 | 9.034003 | 197 | 0.965997 | 9.997475 | 40 | |
| | 30 | 9.031673 | 195 | 9.034200 | 197 | 0.965800 | 9.997473 | 30 | |
| | 40 | 9.031868 | 194 | 9.034397 | 197 | 0.965603 | 9.997471 | 20 | |
| | 50 | 9.032062 | 195 | 9.034594 | 197 | 0.965406 | 9.997468 | 10 | |
| 11 | 0 | 9.032257 | 194 | 9.034791 | 196 | 0.965209 | 9.997466 | 0 | 49 |
| | 10 | 9.032451 | 194 | 9.034987 | 197 | 0.965013 | 9.997464 | 50 | |
| | 20 | 9.032645 | 194 | 9.035184 | 196 | 0.964816 | 9.997461 | 40 | |
| | 30 | 9.032839 | 194 | 9.035380 | 196 | 0.964620 | 9.997459 | 30 | |
| | 40 | 9.033033 | 194 | 9.035576 | 197 | 0.964424 | 9.997457 | 20 | |
| | 50 | 9.033227 | 194 | 9.035773 | 196 | 0.964227 | 9.997455 | 10 | |
| 12 | 0 | 9.033421 | 194 | 9.035969 | 196 | 0.964031 | 9.997452 | 0 | 48 |
| | 10 | 9.033615 | 194 | 9.036165 | 196 | 0.963835 | 9.997450 | 50 | |
| | 20 | 9.033809 | 193 | 9.036361 | 196 | 0.963639 | 9.997448 | 40 | |
| | 30 | 9.034002 | 194 | 9.036557 | 196 | 0.963443 | 9.997445 | 30 | |
| | 40 | 9.034196 | 193 | 9.036753 | 195 | 0.963247 | 9.997443 | 20 | |
| | 50 | 9.034389 | 193 | 9.036948 | 196 | 0.963052 | 9.997441 | 10 | |
| 13 | 0 | 9.034582 | 194 | 9.037144 | 195 | 0.962856 | 9.997439 | 0 | 47 |
| | 10 | 9.034776 | 193 | 9.037339 | 196 | 0.962661 | 9.997436 | 50 | |
| | 20 | 9.034969 | 193 | 9.037535 | 195 | 0.962465 | 9.997434 | 40 | |
| | 30 | 9.035162 | 193 | 9.037730 | 196 | 0.962270 | 9.997432 | 30 | |
| | 40 | 9.035355 | 193 | 9.037926 | 195 | 0.962074 | 9.997429 | 20 | |
| | 50 | 9.035548 | 193 | 9.038121 | 195 | 0.961879 | 9.997427 | 10 | |
| 14 | 0 | 9.035741 | 192 | 9.038316 | 195 | 0.961684 | 9.997425 | 0 | 46 |
| | 10 | 9.035933 | 193 | 9.038511 | 195 | 0.961489 | 9.997423 | 50 | |
| | 20 | 9.036126 | 193 | 9.038706 | 195 | 0.961294 | 9.997420 | 40 | |
| | 30 | 9.036319 | 192 | 9.038901 | 195 | 0.961099 | 9.997418 | 30 | |
| | 40 | 9.036511 | 192 | 9.039095 | 194 | 0.960905 | 9.997416 | 20 | |
| | 50 | 9.036703 | 193 | 9.039290 | 195 | 0.960710 | 9.997413 | 10 | |
| 15 | 0 | 9.036896 | 192 | 9.039485 | 194 | 0.960515 | 9.997411 | 0 | 45 |
| | 10 | 9.037088 | 192 | 9.039679 | 195 | 0.960321 | 9.997409 | 50 | |
| | 20 | 9.037280 | 192 | 9.039874 | 194 | 0.960126 | 9.997406 | 40 | |
| | 30 | 9.037472 | 192 | 9.040068 | 194 | 0.959932 | 9.997404 | 30 | |
| | 40 | 9.037664 | 192 | 9.040262 | 194 | 0.959738 | 9.997402 | 20 | |
| | 50 | 9.037856 | 192 | 9.040456 | 194 | 0.959544 | 9.997399 | 10 | |
| 16 | 0 | 9.038048 | 191 | 9.040651 | 194 | 0.959349 | 9.997397 | 0 | 44 |
| | 10 | 9.038239 | 192 | 9.040845 | 194 | 0.959155 | 9.997395 | 50 | |
| | 20 | 9.038431 | 192 | 9.041039 | 193 | 0.958961 | 9.997393 | 40 | |
| | 30 | 9.038623 | 192 | 9.041232 | 193 | 0.958768 | 9.997390 | 30 | |
| | 40 | 9.038814 | 191 | 9.041426 | 194 | 0.958574 | 9.997388 | 20 | |
| | 50 | 9.039005 | 192 | 9.041620 | 193 | 0.958380 | 9.997386 | 10 | |
| 17 | 0 | 9.039197 | 191 | 9.041813 | 194 | 0.958187 | 9.997383 | 0 | 43 |
| | 10 | 9.039388 | 191 | 9.042007 | 193 | 0.957993 | 9.997381 | 50 | |
| | 20 | 9.039579 | 191 | 9.042200 | 194 | 0.957800 | 9.997379 | 40 | |
| | 30 | 9.039770 | 191 | 9.042394 | 193 | 0.957606 | 9.997376 | 30 | |
| | 40 | 9.039961 | 191 | 9.042587 | 193 | 0.957413 | 9.997374 | 20 | |
| | 50 | 9.040152 | 190 | 9.042780 | 193 | 0.957220 | 9.997372 | 10 | |
| 18 | 0 | 9.040342 | 191 | 9.042973 | 193 | c.75-c27 | 9.997369 | 0 | 42 |
| | 10 | 9.040533 | 191 | 9.043166 | 193 | 0.956834 | 9.997367 | 50 | |
| | 20 | 9.040724 | 190 | 9.043359 | 193 | 0.956641 | 9.997365 | 40 | |
| | 30 | 9.040914 | 191 | 9.043552 | 193 | 0.956448 | 9.997362 | 30 | |
| | 40 | 9.041105 | 190 | 9.043745 | 192 | 0.956255 | 9.997360 | 20 | |
| | 50 | 9.041295 | 190 | 9.043937 | 193 | 0.956063 | 9.997358 | 10 | |
| 19 | 0 | 9.041485 | 190 | 9.044130 | 192 | 0.955870 | 9.997355 | 0 | 41 |
| | 10 | 9.041675 | 190 | 9.044322 | 193 | 0.955678 | 9.997353 | 50 | |
| | 20 | 9.041865 | 190 | 9.044515 | 192 | 0.955485 | 9.997351 | 40 | |
| | 30 | 9.042055 | 190 | 9.044707 | 192 | 0.955293 | 9.997348 | 30 | |
| | 40 | 9.042245 | 190 | 9.044899 | 193 | 0.955101 | 9.997346 | 20 | |
| | 50 | 9.042435 | 190 | 9.045092 | 192 | 0.954908 | 9.997344 | 10 | |
| 20 | 0 | 9.042625 | 190 | 9.045284 | 192 | 0.954716 | 9.997341 | 0 | 40 |

195

1 19.5
2 39.0
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4 77.6
5 97.0
6 116.4
7 135.8
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9 174.6

193

1 19.3
2 38.6
3 57.9
4 77.2
5 96.5
6 115.8
7 135.1
8 154.4
9 173.7

192

1 19.2
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4 76.8
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6 115.2
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191

1 19.1
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8 152.8
9 171.9

| | | Sin | d. | Tang | d. c. | Cotg | Cos | | |
|---------|----|----------|-----|----------|-------|----------|----------|----|----|
| 20 | 0 | 9.042625 | 190 | 9.045284 | 192 | 0.954716 | 9.997341 | 0 | 40 |
| | 10 | 9.042815 | 189 | 9.045476 | 192 | 0.954524 | 9.997339 | 50 | |
| | 20 | 9.043004 | 189 | 9.045668 | 191 | 0.954332 | 9.997337 | 40 | |
| 192 | 30 | 9.043194 | 189 | 9.045859 | 192 | 0.954141 | 9.997334 | 30 | |
| 1 19.2 | 40 | 9.043383 | 189 | 9.046051 | 192 | 0.953949 | 9.997332 | 20 | |
| 2 38.4 | 50 | 9.043572 | 189 | 9.046243 | 191 | 0.953757 | 9.997330 | 10 | |
| 3 57.6 | 0 | 9.043762 | 189 | 9.046435 | 192 | 0.953566 | 9.997327 | 0 | 39 |
| 4 76.8 | 10 | 9.043951 | 189 | 9.046627 | 191 | 0.953374 | 9.997325 | 50 | |
| 5 96.0 | 20 | 9.044140 | 189 | 9.046818 | 192 | 0.953183 | 9.997323 | 40 | |
| 6 115.2 | 30 | 9.044329 | 189 | 9.047009 | 191 | 0.952991 | 9.997320 | 30 | |
| 7 134.4 | 40 | 9.044518 | 189 | 9.047200 | 191 | 0.952800 | 9.997318 | 20 | |
| 8 153.6 | 50 | 9.044707 | 188 | 9.047391 | 191 | 0.952609 | 9.997316 | 10 | |
| 9 172.8 | 0 | 9.044895 | 189 | 9.047582 | 191 | 0.952418 | 9.997313 | 0 | 38 |
| | 10 | 9.045084 | 189 | 9.047773 | 191 | 0.952227 | 9.997311 | 50 | |
| | 20 | 9.045273 | 188 | 9.047964 | 191 | 0.952036 | 9.997309 | 40 | |
| 191 | 30 | 9.045461 | 189 | 9.048155 | 191 | 0.951845 | 9.997306 | 30 | |
| 1 19.1 | 40 | 9.045650 | 188 | 9.048346 | 190 | 0.951654 | 9.997304 | 20 | |
| 2 38.2 | 50 | 9.045838 | 188 | 9.048536 | 191 | 0.951464 | 9.997301 | 10 | |
| 3 57.3 | 0 | 9.046026 | 188 | 9.048727 | 190 | 0.951273 | 9.997299 | 0 | 37 |
| 4 76.4 | 10 | 9.046214 | 188 | 9.048917 | 191 | 0.951083 | 9.997297 | 50 | |
| 5 95.5 | 20 | 9.046402 | 188 | 9.049108 | 190 | 0.950892 | 9.997294 | 40 | |
| 6 114.6 | 30 | 9.046590 | 188 | 9.049298 | 191 | 0.950702 | 9.997292 | 30 | |
| 7 133.7 | 40 | 9.046778 | 188 | 9.049489 | 190 | 0.950511 | 9.997290 | 20 | |
| 8 152.8 | 50 | 9.046966 | 188 | 9.049679 | 190 | 0.950321 | 9.997287 | 10 | |
| 9 171.9 | 0 | 9.047154 | 188 | 9.049869 | 190 | 0.950131 | 9.997285 | 0 | 36 |
| | 10 | 9.047342 | 187 | 9.050059 | 190 | 0.949941 | 9.997283 | 50 | |
| 189 | 20 | 9.047529 | 188 | 9.050249 | 190 | 0.949751 | 9.997280 | 40 | |
| 1 18.9 | 30 | 9.047717 | 187 | 9.050439 | 190 | 0.949561 | 9.997278 | 30 | |
| 2 37.8 | 40 | 9.047904 | 187 | 9.050629 | 189 | 0.949371 | 9.997276 | 20 | |
| 3 56.7 | 50 | 9.048091 | 188 | 9.050818 | 190 | 0.949182 | 9.997273 | 10 | |
| 4 75.6 | 0 | 9.048279 | 187 | 9.051008 | 189 | 0.948992 | 9.997271 | 0 | 35 |
| 5 94.5 | 10 | 9.048466 | 187 | 9.051197 | 190 | 0.948803 | 9.997268 | 50 | |
| 6 113.4 | 20 | 9.048653 | 187 | 9.051387 | 189 | 0.948613 | 9.997266 | 40 | |
| 7 132.3 | 30 | 9.048840 | 187 | 9.051576 | 190 | 0.948424 | 9.997264 | 30 | |
| 8 151.2 | 40 | 9.049027 | 187 | 9.051766 | 190 | 0.948234 | 9.997262 | 20 | |
| 9 170.1 | 50 | 9.049214 | 186 | 9.051955 | 189 | 0.948045 | 9.997259 | 10 | |
| | 0 | 9.049400 | 187 | 9.052144 | 189 | 0.947856 | 9.997257 | 0 | 34 |
| 188 | 10 | 9.049587 | 187 | 9.052333 | 189 | 0.947667 | 9.997254 | 50 | |
| 1 18.8 | 20 | 9.049774 | 186 | 9.052522 | 189 | 0.947478 | 9.997252 | 40 | |
| 2 37.6 | 30 | 9.049960 | 187 | 9.052711 | 189 | 0.947289 | 9.997249 | 30 | |
| 3 56.4 | 40 | 9.050147 | 187 | 9.052900 | 189 | 0.947100 | 9.997247 | 20 | |
| 4 75.2 | 50 | 9.050333 | 186 | 9.053088 | 188 | 0.946912 | 9.997245 | 10 | |
| 5 94.0 | 0 | 9.050519 | 187 | 9.053277 | 189 | 0.946723 | 9.997242 | 0 | 33 |
| 6 112.8 | 10 | 9.050706 | 186 | 9.053466 | 188 | 0.946534 | 9.997240 | 50 | |
| 7 131.6 | 20 | 9.050892 | 186 | 9.053654 | 189 | 0.946346 | 9.997238 | 40 | |
| 8 150.4 | 30 | 9.051078 | 186 | 9.053843 | 188 | 0.946157 | 9.997235 | 30 | |
| 9 169.2 | 40 | 9.051264 | 186 | 9.054031 | 188 | 0.945969 | 9.997233 | 20 | |
| | 50 | 9.051450 | 186 | 9.054219 | 188 | 0.945781 | 9.997230 | 10 | |
| | 0 | 9.051635 | 185 | 9.054407 | 188 | 0.945593 | 9.997228 | 0 | 32 |
| 187 | 10 | 9.051821 | 186 | 9.054596 | 189 | 0.945404 | 9.997226 | 50 | |
| 1 18.7 | 20 | 9.052007 | 185 | 9.054784 | 188 | 0.945216 | 9.997223 | 40 | |
| 2 37.4 | 30 | 9.052192 | 185 | 9.054972 | 188 | 0.945028 | 9.997221 | 30 | |
| 3 56.1 | 40 | 9.052378 | 186 | 9.055159 | 187 | 0.944841 | 9.997218 | 20 | |
| 4 74.8 | 50 | 9.052563 | 185 | 9.055347 | 188 | 0.944653 | 9.997216 | 10 | |
| 5 93.5 | 0 | 9.052749 | 185 | 9.055535 | 188 | 0.944465 | 9.997214 | 0 | 31 |
| 6 112.2 | 10 | 9.052934 | 185 | 9.055723 | 187 | 0.944277 | 9.997211 | 50 | |
| 7 130.9 | 20 | 9.053119 | 185 | 9.055910 | 188 | 0.944090 | 9.997209 | 40 | |
| 8 149.6 | 30 | 9.053304 | 185 | 9.056098 | 188 | 0.943902 | 9.997206 | 30 | |
| 9 168.3 | 40 | 9.053489 | 185 | 9.056285 | 187 | 0.943715 | 9.997204 | 20 | |
| | 50 | 9.053674 | 185 | 9.056472 | 187 | 0.943528 | 9.997202 | 10 | |
| | 0 | 9.053859 | 185 | 9.056659 | 187 | 0.943341 | 9.997199 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 30 | 0 | 0.953859 | 185 | 0.956659 | 188 | 0.943341 | 9.997199 | 0 | 30 |
| | 10 | 0.954044 | 184 | 0.956847 | 187 | 0.943153 | 9.997197 | 50 | |
| | 20 | 0.954228 | 185 | 0.957034 | 187 | 0.942966 | 9.997194 | 40 | |
| | 30 | 0.954413 | 184 | 0.957221 | 187 | 0.942779 | 9.997192 | 30 | |
| | 40 | 0.954597 | 185 | 0.957408 | 186 | 0.942592 | 9.997190 | 20 | |
| | 50 | 0.954782 | 184 | 0.957594 | 187 | 0.942406 | 9.997187 | 10 | |
| 31 | 0 | 0.954966 | 184 | 0.957781 | 187 | 0.942219 | 9.997185 | 0 | 29 |
| | 10 | 0.955150 | 185 | 0.957968 | 187 | 0.942032 | 9.997182 | 50 | |
| | 20 | 0.955335 | 184 | 0.958155 | 186 | 0.941845 | 9.997180 | 40 | |
| | 30 | 0.955519 | 184 | 0.958341 | 187 | 0.941659 | 9.997178 | 30 | |
| | 40 | 0.955703 | 184 | 0.958528 | 186 | 0.941472 | 9.997175 | 20 | |
| | 50 | 0.955887 | 184 | 0.958714 | 186 | 0.941286 | 9.997173 | 10 | |
| 32 | 0 | 0.956071 | 183 | 0.958900 | 186 | 0.941100 | 9.997170 | 0 | 28 |
| | 10 | 0.956254 | 184 | 0.959086 | 187 | 0.940914 | 9.997168 | 50 | |
| | 20 | 0.956438 | 184 | 0.959273 | 186 | 0.940727 | 9.997166 | 40 | |
| | 30 | 0.956622 | 183 | 0.959459 | 186 | 0.940541 | 9.997163 | 30 | |
| | 40 | 0.956805 | 184 | 0.959645 | 186 | 0.940355 | 9.997161 | 20 | |
| | 50 | 0.956989 | 183 | 0.959831 | 185 | 0.940169 | 9.997158 | 10 | |
| 33 | 0 | 0.957172 | 184 | 0.960016 | 186 | 0.939984 | 9.997156 | 0 | 27 |
| | 10 | 0.957356 | 183 | 0.960202 | 186 | 0.939798 | 9.997154 | 50 | |
| | 20 | 0.957539 | 183 | 0.960388 | 185 | 0.939612 | 9.997151 | 40 | |
| | 30 | 0.957722 | 183 | 0.960573 | 186 | 0.939427 | 9.997149 | 30 | |
| | 40 | 0.957905 | 183 | 0.960759 | 185 | 0.939241 | 9.997146 | 20 | |
| | 50 | 0.958088 | 183 | 0.960944 | 186 | 0.939056 | 9.997144 | 10 | |
| 34 | 0 | 0.958271 | 183 | 0.961130 | 185 | 0.938870 | 9.997141 | 0 | 26 |
| | 10 | 0.958454 | 183 | 0.961315 | 185 | 0.938685 | 9.997139 | 50 | |
| | 20 | 0.958637 | 183 | 0.961500 | 185 | 0.938500 | 9.997137 | 40 | |
| | 30 | 0.958820 | 182 | 0.961685 | 185 | 0.938315 | 9.997134 | 30 | |
| | 40 | 0.959002 | 183 | 0.961870 | 185 | 0.938130 | 9.997132 | 20 | |
| | 50 | 0.959185 | 182 | 0.962055 | 185 | 0.937945 | 9.997129 | 10 | |
| 35 | 0 | 0.959367 | 183 | 0.962240 | 185 | 0.937760 | 9.997127 | 0 | 25 |
| | 10 | 0.959550 | 182 | 0.962425 | 185 | 0.937575 | 9.997124 | 50 | |
| | 20 | 0.959732 | 182 | 0.962610 | 185 | 0.937390 | 9.997122 | 40 | |
| | 30 | 0.959914 | 182 | 0.962795 | 184 | 0.937205 | 9.997120 | 30 | |
| | 40 | 0.960096 | 182 | 0.962979 | 185 | 0.937021 | 9.997117 | 20 | |
| | 50 | 0.960278 | 182 | 0.963164 | 184 | 0.936836 | 9.997115 | 10 | |
| 36 | 0 | 0.960460 | 182 | 0.963348 | 185 | 0.936652 | 9.997112 | 0 | 24 |
| | 10 | 0.960642 | 182 | 0.963533 | 184 | 0.936467 | 9.997110 | 50 | |
| | 20 | 0.960824 | 182 | 0.963717 | 184 | 0.936283 | 9.997107 | 40 | |
| | 30 | 0.961006 | 182 | 0.963901 | 184 | 0.936099 | 9.997105 | 30 | |
| | 40 | 0.961188 | 181 | 0.964085 | 184 | 0.935915 | 9.997102 | 20 | |
| | 50 | 0.961369 | 182 | 0.964269 | 184 | 0.935731 | 9.997100 | 10 | |
| 37 | 0 | 0.961551 | 181 | 0.964453 | 184 | 0.935547 | 9.997098 | 0 | 23 |
| | 10 | 0.961732 | 182 | 0.964637 | 184 | 0.935363 | 9.997095 | 50 | |
| | 20 | 0.961914 | 181 | 0.964821 | 184 | 0.935179 | 9.997093 | 40 | |
| | 30 | 0.962095 | 181 | 0.965005 | 183 | 0.934995 | 9.997090 | 30 | |
| | 40 | 0.962276 | 181 | 0.965188 | 184 | 0.934812 | 9.997088 | 20 | |
| | 50 | 0.962457 | 182 | 0.965372 | 184 | 0.934628 | 9.997085 | 10 | |
| 38 | 0 | 0.962639 | 181 | 0.965556 | 183 | 0.934444 | 9.997083 | 0 | 22 |
| | 10 | 0.962820 | 181 | 0.965739 | 183 | 0.934261 | 9.997080 | 50 | |
| | 20 | 0.963001 | 180 | 0.965922 | 184 | 0.934078 | 9.997078 | 40 | |
| | 30 | 0.963181 | 181 | 0.966106 | 183 | 0.933894 | 9.997076 | 30 | |
| | 40 | 0.963362 | 181 | 0.966289 | 183 | 0.933711 | 9.997073 | 20 | |
| | 50 | 0.963543 | 181 | 0.966472 | 183 | 0.933528 | 9.997071 | 10 | |
| 39 | 0 | 0.963724 | 180 | 0.966655 | 183 | 0.933345 | 9.997068 | 0 | 21 |
| | 10 | 0.963904 | 181 | 0.966838 | 183 | 0.933162 | 9.997066 | 50 | |
| | 20 | 0.964085 | 180 | 0.967021 | 183 | 0.932979 | 9.997063 | 40 | |
| | 30 | 0.964265 | 180 | 0.967204 | 183 | 0.932796 | 9.997061 | 30 | |
| | 40 | 0.964445 | 181 | 0.967387 | 183 | 0.932613 | 9.997058 | 20 | |
| | 50 | 0.964626 | 180 | 0.967570 | 182 | 0.932430 | 9.997056 | 10 | |
| 40 | 0 | 0.964806 | 180 | 0.967752 | 182 | 0.932248 | 9.997053 | 0 | 20 |

186
1 18.6
2 37.2
3 55.3
4 74.4
5 93.0
6 111.6
7 130.2
8 148.8
9 167.4

184
1 18.4
2 36.8
3 55.2
4 73.6
5 92.0
6 110.4
7 128.8
8 147.2
9 165.6

183
1 18.3
2 36.6
3 54.9
4 73.2
5 91.5
6 109.8
7 128.1
8 146.4
9 164.7

182
1 18.2
2 36.4
3 54.6
4 72.8
5 91.0
6 109.2
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181
1 18.1
2 36.2
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| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|------|----------|----------|----|----|
| 40 | 0 | 9.064806 | 180 | 9.067752 | 183 | 0.932248 | 9.997053 | 0 | 20 |
| | 10 | 9.064986 | 180 | 9.067935 | 182 | 0.932065 | 9.997051 | 50 | |
| | 20 | 9.065166 | 180 | 9.068117 | 183 | 0.931883 | 9.997049 | 40 | |
| | 30 | 9.065346 | 180 | 9.068300 | 182 | 0.931700 | 9.997046 | 30 | |
| | 40 | 9.065526 | 180 | 9.068482 | 182 | 0.931518 | 9.997044 | 20 | |
| | 50 | 9.065705 | 179 | 9.068664 | 182 | 0.931336 | 9.997041 | 10 | |
| 41 | 0 | 9.065885 | 180 | 9.068846 | 183 | 0.931154 | 9.997039 | 0 | 19 |
| | 10 | 9.066065 | 179 | 9.069029 | 182 | 0.930971 | 9.997036 | 50 | |
| | 20 | 9.066244 | 180 | 9.069211 | 182 | 0.930789 | 9.997034 | 40 | |
| | 30 | 9.066424 | 179 | 9.069393 | 182 | 0.930607 | 9.997031 | 30 | |
| | 40 | 9.066603 | 180 | 9.069575 | 181 | 0.930425 | 9.997029 | 20 | |
| | 50 | 9.066783 | 179 | 9.069756 | 182 | 0.930244 | 9.997026 | 10 | |
| 42 | 0 | 9.066962 | 179 | 9.069938 | 182 | 0.930062 | 9.997024 | 0 | 18 |
| | 10 | 9.067141 | 179 | 9.070120 | 181 | 0.929880 | 9.997021 | 50 | |
| | 20 | 9.067320 | 179 | 9.070301 | 182 | 0.929699 | 9.997019 | 40 | |
| | 30 | 9.067499 | 179 | 9.070483 | 182 | 0.929517 | 9.997016 | 30 | |
| | 40 | 9.067678 | 179 | 9.070664 | 182 | 0.929336 | 9.997014 | 20 | |
| | 50 | 9.067857 | 179 | 9.070846 | 181 | 0.929154 | 9.997011 | 10 | |
| 43 | 0 | 9.068036 | 179 | 9.071027 | 181 | 0.928973 | 9.997009 | 0 | 17 |
| | 10 | 9.068215 | 178 | 9.071208 | 181 | 0.928792 | 9.997007 | 50 | |
| | 20 | 9.068393 | 179 | 9.071389 | 181 | 0.928611 | 9.997004 | 40 | |
| | 30 | 9.068572 | 179 | 9.071570 | 181 | 0.928430 | 9.997002 | 30 | |
| | 40 | 9.068751 | 178 | 9.071751 | 181 | 0.928249 | 9.996999 | 20 | |
| | 50 | 9.068929 | 178 | 9.071932 | 181 | 0.928068 | 9.996997 | 10 | |
| 44 | 0 | 9.069107 | 179 | 9.072113 | 181 | 0.927887 | 9.996995 | 0 | 16 |
| | 10 | 9.069286 | 178 | 9.072294 | 181 | 0.927706 | 9.996992 | 50 | |
| | 20 | 9.069464 | 178 | 9.072475 | 180 | 0.927525 | 9.996989 | 40 | |
| | 30 | 9.069642 | 178 | 9.072655 | 181 | 0.927345 | 9.996987 | 30 | |
| | 40 | 9.069820 | 178 | 9.072836 | 181 | 0.927164 | 9.996984 | 20 | |
| | 50 | 9.069998 | 178 | 9.073016 | 180 | 0.926984 | 9.996982 | 10 | |
| 45 | 0 | 9.070176 | 178 | 9.073197 | 180 | 0.926803 | 9.996979 | 0 | 15 |
| | 10 | 9.070354 | 178 | 9.073377 | 181 | 0.926623 | 9.996977 | 50 | |
| | 20 | 9.070532 | 177 | 9.073558 | 180 | 0.926442 | 9.996974 | 40 | |
| | 30 | 9.070709 | 177 | 9.073738 | 180 | 0.926262 | 9.996972 | 30 | |
| | 40 | 9.070887 | 178 | 9.073918 | 180 | 0.926082 | 9.996969 | 20 | |
| | 50 | 9.071065 | 178 | 9.074098 | 180 | 0.925902 | 9.996967 | 10 | |
| 46 | 0 | 9.071242 | 177 | 9.074278 | 180 | 0.925722 | 9.996964 | 0 | 14 |
| | 10 | 9.071420 | 178 | 9.074458 | 180 | 0.925542 | 9.996962 | 50 | |
| | 20 | 9.071597 | 177 | 9.074638 | 180 | 0.925362 | 9.996959 | 40 | |
| | 30 | 9.071774 | 177 | 9.074817 | 180 | 0.925183 | 9.996957 | 30 | |
| | 40 | 9.071951 | 177 | 9.074997 | 180 | 0.925003 | 9.996954 | 20 | |
| | 50 | 9.072128 | 177 | 9.075177 | 180 | 0.924823 | 9.996952 | 10 | |
| 47 | 0 | 9.072306 | 178 | 9.075356 | 179 | 0.924644 | 9.996949 | 0 | 13 |
| | 10 | 9.072482 | 176 | 9.075536 | 180 | 0.924464 | 9.996947 | 50 | |
| | 20 | 9.072659 | 177 | 9.075715 | 179 | 0.924285 | 9.996944 | 40 | |
| | 30 | 9.072836 | 177 | 9.075895 | 180 | 0.924105 | 9.996942 | 30 | |
| | 40 | 9.073013 | 177 | 9.076074 | 179 | 0.923926 | 9.996939 | 20 | |
| | 50 | 9.073190 | 177 | 9.076253 | 179 | 0.923747 | 9.996937 | 10 | |
| 48 | 0 | 9.073366 | 176 | 9.076432 | 179 | 0.923568 | 9.996934 | 0 | 12 |
| | 10 | 9.073543 | 177 | 9.076611 | 179 | 0.923389 | 9.996932 | 50 | |
| | 20 | 9.073719 | 176 | 9.076790 | 179 | 0.923210 | 9.996929 | 40 | |
| | 30 | 9.073896 | 177 | 9.076969 | 179 | 0.923031 | 9.996927 | 30 | |
| | 40 | 9.074072 | 176 | 9.077148 | 179 | 0.922852 | 9.996924 | 20 | |
| | 50 | 9.074248 | 176 | 9.077327 | 178 | 0.922673 | 9.996922 | 10 | |
| 49 | 0 | 9.074424 | 176 | 9.077505 | 179 | 0.922495 | 9.996919 | 0 | 11 |
| | 10 | 9.074600 | 176 | 9.077684 | 179 | 0.922316 | 9.996917 | 50 | |
| | 20 | 9.074777 | 177 | 9.077862 | 178 | 0.922138 | 9.996914 | 40 | |
| | 30 | 9.074952 | 175 | 9.078041 | 179 | 0.921959 | 9.996912 | 30 | |
| | 40 | 9.075128 | 176 | 9.078219 | 178 | 0.921781 | 9.996909 | 20 | |
| | 50 | 9.075304 | 176 | 9.078398 | 179 | 0.921602 | 9.996906 | 10 | |
| 50 | 0 | 9.075480 | 176 | 9.078576 | 178 | 0.921424 | 9.996904 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 50 | 0 | 9.075480 | 176 | 9.078576 | 178 | 0.921424 | 9.996904 | 0 | 10 |
| | 10 | 9.075656 | 175 | 9.078754 | 178 | 0.921246 | 9.996901 | 50 | |
| | 20 | 9.075831 | 175 | 9.078932 | 178 | 0.921068 | 9.996899 | 40 | |
| | 30 | 9.076007 | 176 | 9.079110 | 178 | 0.920890 | 9.996896 | 30 | |
| | 40 | 9.076182 | 175 | 9.079288 | 178 | 0.920712 | 9.996894 | 20 | |
| | 50 | 9.076358 | 176 | 9.079466 | 178 | 0.920534 | 9.996891 | 10 | |
| 51 | 0 | 9.076533 | 175 | 9.079644 | 178 | 0.920356 | 9.996889 | 0 | 9 |
| | 10 | 9.076708 | 175 | 9.079822 | 178 | 0.920178 | 9.996886 | 50 | |
| | 20 | 9.076883 | 175 | 9.080000 | 177 | 0.920000 | 9.996884 | 40 | |
| | 30 | 9.077058 | 175 | 9.080177 | 178 | 0.919823 | 9.996881 | 30 | |
| | 40 | 9.077233 | 175 | 9.080355 | 177 | 0.919645 | 9.996879 | 20 | |
| | 50 | 9.077408 | 175 | 9.080532 | 178 | 0.919468 | 9.996876 | 10 | |
| 52 | 0 | 9.077583 | 175 | 9.080710 | 177 | 0.919290 | 9.996874 | 0 | 8 |
| | 10 | 9.077758 | 175 | 9.080887 | 177 | 0.919113 | 9.996871 | 50 | |
| | 20 | 9.077933 | 174 | 9.081064 | 177 | 0.918936 | 9.996869 | 40 | |
| | 30 | 9.078107 | 174 | 9.081241 | 178 | 0.918759 | 9.996866 | 30 | |
| | 40 | 9.078282 | 175 | 9.081419 | 177 | 0.918581 | 9.996863 | 20 | |
| | 50 | 9.078457 | 175 | 9.081596 | 177 | 0.918404 | 9.996861 | 10 | |
| 53 | 0 | 9.078631 | 174 | 9.081773 | 177 | 0.918227 | 9.996858 | 0 | 7 |
| | 10 | 9.078805 | 175 | 9.081950 | 176 | 0.918050 | 9.996856 | 50 | |
| | 20 | 9.078980 | 174 | 9.082126 | 177 | 0.917874 | 9.996853 | 40 | |
| | 30 | 9.079154 | 174 | 9.082303 | 177 | 0.917697 | 9.996851 | 30 | |
| | 40 | 9.079328 | 174 | 9.082480 | 177 | 0.917520 | 9.996848 | 20 | |
| | 50 | 9.079502 | 174 | 9.082657 | 176 | 0.917343 | 9.996846 | 10 | |
| 54 | 0 | 9.079676 | 174 | 9.082833 | 177 | 0.917167 | 9.996843 | 0 | 6 |
| | 10 | 9.079850 | 174 | 9.083010 | 176 | 0.916990 | 9.996841 | 50 | |
| | 20 | 9.080024 | 174 | 9.083186 | 176 | 0.916814 | 9.996838 | 40 | |
| | 30 | 9.080198 | 174 | 9.083362 | 177 | 0.916638 | 9.996835 | 30 | |
| | 40 | 9.080372 | 174 | 9.083539 | 176 | 0.916461 | 9.996833 | 20 | |
| | 50 | 9.080545 | 173 | 9.083715 | 176 | 0.916285 | 9.996830 | 10 | |
| 55 | 0 | 9.080719 | 173 | 9.083891 | 176 | 0.916109 | 9.996828 | 0 | 5 |
| | 10 | 9.080892 | 174 | 9.084067 | 176 | 0.915933 | 9.996825 | 50 | |
| | 20 | 9.081066 | 173 | 9.084243 | 176 | 0.915757 | 9.996823 | 40 | |
| | 30 | 9.081239 | 174 | 9.084419 | 176 | 0.915581 | 9.996820 | 30 | |
| | 40 | 9.081413 | 173 | 9.084595 | 176 | 0.915405 | 9.996818 | 20 | |
| | 50 | 9.081586 | 173 | 9.084771 | 176 | 0.915229 | 9.996815 | 10 | |
| 56 | 0 | 9.081759 | 173 | 9.084947 | 175 | 0.915053 | 9.996812 | 0 | 4 |
| | 10 | 9.081932 | 173 | 9.085122 | 176 | 0.914878 | 9.996810 | 50 | |
| | 20 | 9.082105 | 173 | 9.085298 | 175 | 0.914702 | 9.996807 | 40 | |
| | 30 | 9.082278 | 173 | 9.085473 | 176 | 0.914527 | 9.996805 | 30 | |
| | 40 | 9.082451 | 173 | 9.085649 | 175 | 0.914351 | 9.996802 | 20 | |
| | 50 | 9.082624 | 173 | 9.085824 | 176 | 0.914176 | 9.996800 | 10 | |
| 57 | 0 | 9.082797 | 172 | 9.086000 | 175 | 0.914000 | 9.996797 | 0 | 3 |
| | 10 | 9.082969 | 173 | 9.086175 | 175 | 0.913825 | 9.996795 | 50 | |
| | 20 | 9.083142 | 172 | 9.086350 | 175 | 0.913650 | 9.996792 | 40 | |
| | 30 | 9.083314 | 172 | 9.086525 | 175 | 0.913475 | 9.996789 | 30 | |
| | 40 | 9.083487 | 172 | 9.086700 | 175 | 0.913300 | 9.996787 | 20 | |
| | 50 | 9.083659 | 173 | 9.086875 | 175 | 0.913125 | 9.996784 | 10 | |
| 58 | 0 | 9.083832 | 172 | 9.087050 | 175 | 0.912950 | 9.996782 | 0 | 2 |
| | 10 | 9.084004 | 172 | 9.087225 | 175 | 0.912775 | 9.996779 | 50 | |
| | 20 | 9.084176 | 172 | 9.087400 | 174 | 0.912600 | 9.996777 | 40 | |
| | 30 | 9.084348 | 172 | 9.087574 | 175 | 0.912426 | 9.996774 | 30 | |
| | 40 | 9.084520 | 172 | 9.087749 | 175 | 0.912251 | 9.996771 | 20 | |
| | 50 | 9.084692 | 172 | 9.087924 | 174 | 0.912076 | 9.996769 | 10 | |
| 59 | 0 | 9.084864 | 172 | 9.088098 | 175 | 0.911902 | 9.996766 | 0 | 1 |
| | 10 | 9.085036 | 172 | 9.088273 | 174 | 0.911727 | 9.996764 | 50 | |
| | 20 | 9.085208 | 172 | 9.088447 | 174 | 0.911553 | 9.996761 | 40 | |
| | 30 | 9.085380 | 171 | 9.088621 | 174 | 0.911379 | 9.996758 | 30 | |
| | 40 | 9.085551 | 172 | 9.088795 | 175 | 0.911205 | 9.996756 | 20 | |
| | 50 | 9.085723 | 171 | 9.088970 | 174 | 0.911030 | 9.996753 | 10 | |
| 60 | 0 | 9.085894 | 171 | 9.089144 | 174 | 0.910856 | 9.996751 | 0 | 0 |

176
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| | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 0 | 0 | 9.085894 | 172 | 9.089144 | 174 | 9.910856 | 9.996751 | 0 | 60 |
| | 10 | 9.086066 | 171 | 9.089318 | 174 | 9.910682 | 9.996748 | 50 | |
| | 20 | 9.086237 | 172 | 9.089492 | 174 | 9.910508 | 9.996746 | 40 | |
| | 30 | 9.086409 | 171 | 9.089666 | 173 | 9.910334 | 9.996743 | 30 | |
| | 40 | 9.086580 | 171 | 9.089839 | 174 | 9.910161 | 9.996740 | 20 | |
| | 50 | 9.086751 | 171 | 9.090013 | 174 | 9.909987 | 9.996738 | 10 | |
| 1 | 0 | 9.086922 | 171 | 9.090187 | 174 | 9.909813 | 9.996735 | 0 | 59 |
| | 10 | 9.087093 | 171 | 9.090361 | 173 | 9.909639 | 9.996733 | 50 | |
| | 20 | 9.087264 | 171 | 9.090534 | 173 | 9.909466 | 9.996730 | 40 | |
| | 30 | 9.087435 | 171 | 9.090708 | 173 | 9.909292 | 9.996727 | 30 | |
| | 40 | 9.087606 | 171 | 9.090881 | 173 | 9.909119 | 9.996725 | 20 | |
| | 50 | 9.087777 | 170 | 9.091054 | 173 | 9.908946 | 9.996722 | 10 | |
| 2 | 0 | 9.087947 | 171 | 9.091228 | 173 | 9.908772 | 9.996720 | 0 | 58 |
| | 10 | 9.088118 | 170 | 9.091401 | 173 | 9.908599 | 9.996717 | 50 | |
| | 20 | 9.088288 | 171 | 9.091574 | 173 | 9.908426 | 9.996714 | 40 | |
| | 30 | 9.088459 | 170 | 9.091747 | 173 | 9.908253 | 9.996712 | 30 | |
| | 40 | 9.088629 | 171 | 9.091920 | 173 | 9.908080 | 9.996709 | 20 | |
| | 50 | 9.088800 | 170 | 9.092093 | 173 | 9.907907 | 9.996707 | 10 | |
| 3 | 0 | 9.088970 | 170 | 9.092266 | 173 | 9.907734 | 9.996704 | 0 | 57 |
| | 10 | 9.089140 | 170 | 9.092439 | 173 | 9.907561 | 9.996701 | 50 | |
| | 20 | 9.089310 | 170 | 9.092612 | 172 | 9.907388 | 9.996699 | 40 | |
| | 30 | 9.089480 | 171 | 9.092784 | 173 | 9.907216 | 9.996696 | 30 | |
| | 40 | 9.089651 | 169 | 9.092957 | 172 | 9.907043 | 9.996694 | 20 | |
| | 50 | 9.089820 | 170 | 9.093129 | 172 | 9.906871 | 9.996691 | 10 | |
| 4 | 0 | 9.089990 | 170 | 9.093302 | 172 | 9.906698 | 9.996688 | 0 | 56 |
| | 10 | 9.090160 | 170 | 9.093474 | 172 | 9.906526 | 9.996686 | 50 | |
| | 20 | 9.090330 | 170 | 9.093647 | 173 | 9.906353 | 9.996683 | 40 | |
| | 30 | 9.090500 | 169 | 9.093819 | 172 | 9.906181 | 9.996681 | 30 | |
| | 40 | 9.090669 | 170 | 9.093991 | 172 | 9.906009 | 9.996678 | 20 | |
| | 50 | 9.090839 | 169 | 9.094163 | 172 | 9.905837 | 9.996675 | 10 | |
| 5 | 0 | 9.091008 | 170 | 9.094336 | 172 | 9.905664 | 9.996673 | 0 | 55 |
| | 10 | 9.091178 | 169 | 9.094508 | 172 | 9.905492 | 9.996670 | 50 | |
| | 20 | 9.091347 | 169 | 9.094680 | 171 | 9.905320 | 9.996667 | 40 | |
| | 30 | 9.091516 | 169 | 9.094851 | 172 | 9.905148 | 9.996665 | 30 | |
| | 40 | 9.091685 | 169 | 9.095023 | 172 | 9.904976 | 9.996662 | 20 | |
| | 50 | 9.091855 | 169 | 9.095195 | 172 | 9.904804 | 9.996660 | 10 | |
| 6 | 0 | 9.092024 | 169 | 9.095367 | 171 | 9.904632 | 9.996657 | 0 | 54 |
| | 10 | 9.092193 | 169 | 9.095538 | 172 | 9.904460 | 9.996655 | 50 | |
| | 20 | 9.092362 | 168 | 9.095710 | 171 | 9.904288 | 9.996652 | 40 | |
| | 30 | 9.092530 | 169 | 9.095881 | 172 | 9.904116 | 9.996650 | 30 | |
| | 40 | 9.092699 | 169 | 9.096053 | 172 | 9.903944 | 9.996648 | 20 | |
| | 50 | 9.092868 | 169 | 9.096224 | 171 | 9.903772 | 9.996646 | 10 | |
| 7 | 0 | 9.093037 | 168 | 9.096395 | 172 | 9.903600 | 9.996644 | 0 | 53 |
| | 10 | 9.093205 | 169 | 9.096567 | 171 | 9.903428 | 9.996642 | 50 | |
| | 20 | 9.093374 | 168 | 9.096738 | 171 | 9.903256 | 9.996640 | 40 | |
| | 30 | 9.093542 | 169 | 9.096909 | 171 | 9.903084 | 9.996638 | 30 | |
| | 40 | 9.093711 | 169 | 9.097080 | 171 | 9.902912 | 9.996636 | 20 | |
| | 50 | 9.093879 | 168 | 9.097251 | 171 | 9.902740 | 9.996634 | 10 | |
| 8 | 0 | 9.094047 | 168 | 9.097422 | 171 | 9.902568 | 9.996632 | 0 | 52 |
| | 10 | 9.094216 | 169 | 9.097593 | 171 | 9.902396 | 9.996630 | 50 | |
| | 20 | 9.094384 | 168 | 9.097764 | 170 | 9.902224 | 9.996628 | 40 | |
| | 30 | 9.094552 | 168 | 9.097934 | 170 | 9.902052 | 9.996626 | 30 | |
| | 40 | 9.094720 | 168 | 9.098105 | 171 | 9.901880 | 9.996624 | 20 | |
| | 50 | 9.094888 | 168 | 9.098276 | 171 | 9.901708 | 9.996622 | 10 | |
| 9 | 0 | 9.095056 | 167 | 9.098446 | 170 | 9.901536 | 9.996620 | 0 | 51 |
| | 10 | 9.095223 | 168 | 9.098616 | 171 | 9.901364 | 9.996618 | 50 | |
| | 20 | 9.095391 | 168 | 9.098787 | 170 | 9.901192 | 9.996616 | 40 | |
| | 30 | 9.095559 | 168 | 9.098957 | 170 | 9.901020 | 9.996614 | 30 | |
| | 40 | 9.095726 | 167 | 9.099127 | 170 | 9.900848 | 9.996612 | 20 | |
| | 50 | 9.095894 | 168 | 9.099298 | 171 | 9.900676 | 9.996610 | 10 | |
| 10 | 0 | 9.096062 | 168 | 9.099468 | 170 | 9.900504 | 9.996594 | 0 | 50 |
| | | | | | | | | | |
| | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 10 | o | 9.096062 | 167 | 9.099468 | 170 | 0.900532 | 9.996594 | o | 50 |
| | 10 | 9.096229 | 167 | 9.099638 | 170 | 0.900362 | 9.996591 | 50 | |
| | 20 | 9.096396 | 168 | 9.099808 | 170 | 0.900192 | 9.996588 | 40 | |
| | 30 | 9.096564 | 167 | 9.099978 | 170 | 0.900022 | 9.996586 | 30 | |
| | 40 | 9.096731 | 167 | 9.100148 | 170 | 0.899852 | 9.996583 | 20 | |
| | 50 | 9.096898 | 167 | 9.100317 | 169 | 0.899683 | 9.996580 | 10 | |
| 11 | o | 9.097065 | 167 | 9.100487 | 170 | 0.899513 | 9.996578 | o | 49 |
| | 10 | 9.097232 | 167 | 9.100657 | 170 | 0.899343 | 9.996575 | 50 | |
| | 20 | 9.097399 | 167 | 9.100827 | 169 | 0.899173 | 9.996573 | 40 | |
| | 30 | 9.097566 | 167 | 9.100996 | 170 | 0.899004 | 9.996570 | 30 | |
| | 40 | 9.097733 | 167 | 9.101166 | 169 | 0.898834 | 9.996567 | 20 | |
| | 50 | 9.097900 | 166 | 9.101335 | 169 | 0.898665 | 9.996565 | 10 | |
| 12 | o | 9.098066 | 167 | 9.101504 | 170 | 0.898496 | 9.996562 | o | 48 |
| | 10 | 9.098233 | 166 | 9.101674 | 169 | 0.898326 | 9.996559 | 50 | |
| | 20 | 9.098399 | 167 | 9.101843 | 169 | 0.898157 | 9.996557 | 40 | |
| | 30 | 9.098566 | 166 | 9.102012 | 169 | 0.897988 | 9.996554 | 30 | |
| | 40 | 9.098732 | 167 | 9.102181 | 169 | 0.897819 | 9.996551 | 20 | |
| | 50 | 9.098899 | 166 | 9.102350 | 169 | 0.897652 | 9.996549 | 10 | |
| 13 | o | 9.099065 | 166 | 9.102519 | 169 | 0.897482 | 9.996546 | o | 47 |
| | 10 | 9.099231 | 167 | 9.102688 | 169 | 0.897312 | 9.996543 | 50 | |
| | 20 | 9.099398 | 166 | 9.102857 | 169 | 0.897143 | 9.996541 | 40 | |
| | 30 | 9.099564 | 166 | 9.103026 | 168 | 0.896974 | 9.996538 | 30 | |
| | 40 | 9.099730 | 166 | 9.103194 | 169 | 0.896806 | 9.996535 | 20 | |
| | 50 | 9.099896 | 166 | 9.103363 | 169 | 0.896637 | 9.996533 | 10 | |
| 14 | o | 9.100062 | 165 | 9.103532 | 168 | 0.896468 | 9.996530 | o | 46 |
| | 10 | 9.100227 | 166 | 9.103700 | 169 | 0.896300 | 9.996527 | 50 | |
| | 20 | 9.100393 | 166 | 9.103869 | 168 | 0.896131 | 9.996525 | 40 | |
| | 30 | 9.100559 | 166 | 9.104037 | 168 | 0.895963 | 9.996522 | 30 | |
| | 40 | 9.100725 | 165 | 9.104205 | 169 | 0.895795 | 9.996519 | 20 | |
| | 50 | 9.100890 | 166 | 9.104374 | 168 | 0.895626 | 9.996517 | 10 | |
| 15 | o | 9.101056 | 165 | 9.104542 | 168 | 0.895458 | 9.996514 | o | 45 |
| | 10 | 9.101221 | 166 | 9.104710 | 168 | 0.895290 | 9.996511 | 50 | |
| | 20 | 9.101387 | 165 | 9.104878 | 168 | 0.895122 | 9.996508 | 40 | |
| | 30 | 9.101552 | 165 | 9.105046 | 168 | 0.894954 | 9.996506 | 30 | |
| | 40 | 9.101717 | 166 | 9.105214 | 168 | 0.894786 | 9.996503 | 20 | |
| | 50 | 9.101883 | 165 | 9.105382 | 168 | 0.894618 | 9.996500 | 10 | |
| 16 | o | 9.102048 | 165 | 9.105550 | 168 | 0.894450 | 9.996498 | o | 44 |
| | 10 | 9.102213 | 165 | 9.105718 | 168 | 0.894282 | 9.996495 | 50 | |
| | 20 | 9.102378 | 165 | 9.105885 | 167 | 0.894115 | 9.996492 | 40 | |
| | 30 | 9.102543 | 165 | 9.106053 | 168 | 0.893947 | 9.996490 | 30 | |
| | 40 | 9.102708 | 165 | 9.106221 | 168 | 0.893779 | 9.996487 | 20 | |
| | 50 | 9.102873 | 165 | 9.106388 | 167 | 0.893612 | 9.996484 | 10 | |
| 17 | o | 9.103037 | 164 | 9.106556 | 168 | 0.893444 | 9.996482 | o | 43 |
| | 10 | 9.103202 | 165 | 9.106723 | 167 | 0.893277 | 9.996479 | 50 | |
| | 20 | 9.103367 | 165 | 9.106890 | 167 | 0.893110 | 9.996476 | 40 | |
| | 30 | 9.103531 | 164 | 9.107058 | 168 | 0.892942 | 9.996474 | 30 | |
| | 40 | 9.103696 | 165 | 9.107225 | 167 | 0.892775 | 9.996471 | 20 | |
| | 50 | 9.103860 | 164 | 9.107392 | 167 | 0.892608 | 9.996468 | 10 | |
| 18 | o | 9.104025 | 165 | 9.107559 | 167 | 0.892441 | 9.996465 | o | 42 |
| | 10 | 9.104189 | 164 | 9.107726 | 167 | 0.892274 | 9.996463 | 50 | |
| | 20 | 9.104353 | 164 | 9.107893 | 167 | 0.892107 | 9.996460 | 40 | |
| | 30 | 9.104517 | 165 | 9.108060 | 167 | 0.891940 | 9.996457 | 30 | |
| | 40 | 9.104682 | 165 | 9.108227 | 167 | 0.891773 | 9.996455 | 20 | |
| | 50 | 9.104846 | 164 | 9.108394 | 167 | 0.891606 | 9.996452 | 10 | |
| 19 | o | 9.105010 | 164 | 9.108560 | 166 | 0.891440 | 9.996449 | o | 41 |
| | 10 | 9.105174 | 164 | 9.108727 | 167 | 0.891273 | 9.996447 | 50 | |
| | 20 | 9.105337 | 163 | 9.108894 | 167 | 0.891106 | 9.996444 | 40 | |
| | 30 | 9.105501 | 164 | 9.109060 | 166 | 0.890940 | 9.996441 | 30 | |
| | 40 | 9.105665 | 164 | 9.109227 | 167 | 0.890773 | 9.996438 | 20 | |
| | 50 | 9.105829 | 164 | 9.109393 | 166 | 0.890607 | 9.996436 | 10 | |
| 20 | o | 9.105992 | 163 | 9.109559 | 166 | 0.890441 | 9.996433 | o | 40 |

168

1 16.8

2 33.6

3 50.4

4 67.2

5 84.0

6 100.8

7 117.6

8 134.4

9 151.2

167

1 16.7

2 33.4

3 50.1

4 66.8

5 83.5

6 100.2

7 116.9

8 133.6

9 150.3

166

1 16.6

2 33.2

3 49.8

4 66.4

5 83.0

6 99.6

7 116.2

8 132.8

9 149.4

165

1 16.5

2 33.0

3 49.5

4 66.0

5 82.5

6 99.0

7 115.5

8 132.0

9 148.5

164

1 16.4

2 32.8

3 49.2

4 65.6

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6 98.4

7 114.8

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166
1 16.6
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3 49.8
4 66.4
5 83.0
6 99.6
7 116.2
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165
1 16.5
2 33.0
3 49.5
4 66.0
5 82.5
6 99.0
7 115.5
8 132.0
9 148.5

164
1 16.4
2 32.8
3 49.2
4 65.6
5 82.0
6 98.4
7 114.8
8 131.2
9 147.6

163
1 16.3
2 32.6
3 48.9
4 65.2
5 81.5
6 97.8
7 114.1
8 130.4
9 146.7

162
1 16.2
2 32.4
3 48.6
4 64.8
5 81.0
6 97.2
7 113.4
8 129.6
9 145.8

| | | Sin | d. | Tang | d. c. | Cotg | Cos | | |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 20 | 0 | 9.105992 | 164 | 9.109559 | 167 | 0.890441 | 9.996433 | 0 | 40 |
| | 10 | 9.106156 | 163 | 9.109726 | 166 | 0.890274 | 9.996430 | 50 | |
| | 20 | 9.106319 | 164 | 9.109892 | 166 | 0.890108 | 9.996428 | 40 | |
| | 30 | 9.106483 | 163 | 9.110058 | 166 | 0.889942 | 9.996425 | 30 | |
| | 40 | 9.106646 | 164 | 9.110224 | 166 | 0.889776 | 9.996422 | 20 | |
| | 50 | 9.106810 | 163 | 9.110390 | 166 | 0.889610 | 9.996419 | 10 | |
| 21 | 0 | 9.106973 | 163 | 9.110556 | 166 | 0.889444 | 9.996417 | 0 | 39 |
| | 10 | 9.107136 | 163 | 9.110722 | 166 | 0.889278 | 9.996414 | 50 | |
| | 20 | 9.107299 | 163 | 9.110888 | 166 | 0.889112 | 9.996411 | 40 | |
| | 30 | 9.107462 | 163 | 9.111054 | 166 | 0.888946 | 9.996409 | 30 | |
| | 40 | 9.107625 | 163 | 9.111219 | 165 | 0.888781 | 9.996406 | 20 | |
| | 50 | 9.107788 | 163 | 9.111385 | 166 | 0.888615 | 9.996403 | 10 | |
| 22 | 0 | 9.107951 | 163 | 9.111551 | 166 | 0.888449 | 9.996400 | 0 | 38 |
| | 10 | 9.108114 | 163 | 9.111716 | 165 | 0.888284 | 9.996398 | 50 | |
| | 20 | 9.108277 | 163 | 9.111882 | 166 | 0.888118 | 9.996395 | 40 | |
| | 30 | 9.108439 | 162 | 9.112047 | 165 | 0.887953 | 9.996392 | 30 | |
| | 40 | 9.108602 | 163 | 9.112213 | 166 | 0.887787 | 9.996390 | 20 | |
| | 50 | 9.108765 | 162 | 9.112378 | 165 | 0.887622 | 9.996387 | 10 | |
| 23 | 0 | 9.108927 | 163 | 9.112543 | 165 | 0.887457 | 9.996384 | 0 | 37 |
| | 10 | 9.109090 | 162 | 9.112708 | 165 | 0.887292 | 9.996381 | 50 | |
| | 20 | 9.109252 | 162 | 9.112873 | 166 | 0.887127 | 9.996379 | 40 | |
| | 30 | 9.109414 | 162 | 9.113039 | 166 | 0.886961 | 9.996376 | 30 | |
| | 40 | 9.109577 | 163 | 9.113204 | 165 | 0.886796 | 9.996373 | 20 | |
| | 50 | 9.109739 | 162 | 9.113368 | 164 | 0.886632 | 9.996370 | 10 | |
| 24 | 0 | 9.109901 | 162 | 9.113533 | 165 | 0.886467 | 9.996368 | 0 | 36 |
| | 10 | 9.110063 | 162 | 9.113698 | 165 | 0.886302 | 9.996365 | 50 | |
| | 20 | 9.110225 | 162 | 9.113863 | 165 | 0.886137 | 9.996362 | 40 | |
| | 30 | 9.110387 | 162 | 9.114028 | 165 | 0.885972 | 9.996359 | 30 | |
| | 40 | 9.110549 | 162 | 9.114192 | 164 | 0.885808 | 9.996357 | 20 | |
| | 50 | 9.110711 | 162 | 9.114357 | 165 | 0.885643 | 9.996354 | 10 | |
| 25 | 0 | 9.110873 | 161 | 9.114521 | 164 | 0.885479 | 9.996351 | 0 | 35 |
| | 10 | 9.111034 | 162 | 9.114686 | 165 | 0.885314 | 9.996349 | 50 | |
| | 20 | 9.111196 | 162 | 9.114850 | 164 | 0.885150 | 9.996346 | 40 | |
| | 30 | 9.111358 | 161 | 9.115015 | 165 | 0.884985 | 9.996343 | 30 | |
| | 40 | 9.111519 | 161 | 9.115179 | 164 | 0.884821 | 9.996340 | 20 | |
| | 50 | 9.111681 | 162 | 9.115343 | 164 | 0.884657 | 9.996338 | 10 | |
| 26 | 0 | 9.111842 | 161 | 9.115507 | 164 | 0.884493 | 9.996335 | 0 | 34 |
| | 10 | 9.112003 | 162 | 9.115671 | 164 | 0.884329 | 9.996332 | 50 | |
| | 20 | 9.112165 | 161 | 9.115835 | 164 | 0.884165 | 9.996329 | 40 | |
| | 30 | 9.112326 | 161 | 9.115999 | 164 | 0.884001 | 9.996327 | 30 | |
| | 40 | 9.112487 | 161 | 9.116163 | 164 | 0.883837 | 9.996324 | 20 | |
| | 50 | 9.112648 | 161 | 9.116327 | 164 | 0.883673 | 9.996321 | 10 | |
| 27 | 0 | 9.112809 | 161 | 9.116491 | 164 | 0.883509 | 9.996318 | 0 | 33 |
| | 10 | 9.112970 | 161 | 9.116655 | 164 | 0.883345 | 9.996316 | 50 | |
| | 20 | 9.113131 | 161 | 9.116818 | 163 | 0.883182 | 9.996313 | 40 | |
| | 30 | 9.113292 | 161 | 9.116982 | 164 | 0.883018 | 9.996310 | 30 | |
| | 40 | 9.113453 | 163 | 9.117145 | 163 | 0.882855 | 9.996307 | 20 | |
| | 50 | 9.113613 | 160 | 9.117309 | 164 | 0.882691 | 9.996305 | 10 | |
| 28 | 0 | 9.113774 | 161 | 9.117472 | 163 | 0.882528 | 9.996302 | 0 | 32 |
| | 10 | 9.113935 | 161 | 9.117636 | 164 | 0.882364 | 9.996299 | 50 | |
| | 20 | 9.114095 | 160 | 9.117799 | 163 | 0.882201 | 9.996296 | 40 | |
| | 30 | 9.114256 | 161 | 9.117962 | 163 | 0.882038 | 9.996293 | 30 | |
| | 40 | 9.114416 | 160 | 9.118126 | 164 | 0.881874 | 9.996291 | 20 | |
| | 50 | 9.114577 | 161 | 9.118289 | 163 | 0.881711 | 9.996288 | 10 | |
| 29 | 0 | 9.114737 | 160 | 9.118452 | 163 | 0.881548 | 9.996285 | 0 | 31 |
| | 10 | 9.114897 | 160 | 9.118615 | 163 | 0.881385 | 9.996282 | 50 | |
| | 20 | 9.115057 | 161 | 9.118778 | 163 | 0.881222 | 9.996280 | 40 | |
| | 30 | 9.115218 | 160 | 9.118941 | 163 | 0.881059 | 9.996277 | 30 | |
| | 40 | 9.115378 | 160 | 9.119104 | 163 | 0.880896 | 9.996274 | 20 | |
| | 50 | 9.115538 | 160 | 9.119266 | 162 | 0.880734 | 9.996271 | 10 | |
| 30 | 0 | 9.115698 | 160 | 9.119429 | 163 | 0.880571 | 9.996269 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 30 | 0 | 9.115698 | 160 | 9.119429 | 163 | 0.880571 | 9.996269 | 0 | 30 |
| | 10 | 9.115858 | 159 | 9.119592 | 162 | 0.880408 | 9.996266 | 50 | |
| | 20 | 9.116017 | 160 | 9.119754 | 163 | 0.880246 | 9.996263 | 40 | |
| | 30 | 9.116177 | 160 | 9.119917 | 162 | 0.880083 | 9.996260 | 30 | |
| | 40 | 9.116337 | 160 | 9.120079 | 163 | 0.879921 | 9.996257 | 20 | |
| | 50 | 9.116497 | 159 | 9.120242 | 162 | 0.879758 | 9.996255 | 10 | |
| 31 | 0 | 9.116656 | 160 | 9.120404 | 163 | 0.879596 | 9.996252 | 0 | 29 |
| | 10 | 9.116816 | 159 | 9.120567 | 162 | 0.879433 | 9.996249 | 50 | |
| | 20 | 9.116975 | 160 | 9.120729 | 163 | 0.879271 | 9.996246 | 40 | |
| | 30 | 9.117135 | 159 | 9.120891 | 162 | 0.879109 | 9.996244 | 30 | |
| | 40 | 9.117294 | 159 | 9.121053 | 162 | 0.878947 | 9.996241 | 20 | |
| | 50 | 9.117453 | 160 | 9.121215 | 162 | 0.878785 | 9.996238 | 10 | |
| 32 | 0 | 9.117613 | 159 | 9.121377 | 162 | 0.878623 | 9.996235 | 0 | 28 |
| | 10 | 9.117772 | 159 | 9.121539 | 162 | 0.878461 | 9.996232 | 50 | |
| | 20 | 9.117931 | 159 | 9.121701 | 162 | 0.878299 | 9.996230 | 40 | |
| | 30 | 9.118090 | 159 | 9.121863 | 162 | 0.878137 | 9.996227 | 30 | |
| | 40 | 9.118249 | 159 | 9.122025 | 162 | 0.877975 | 9.996224 | 20 | |
| | 50 | 9.118408 | 159 | 9.122187 | 161 | 0.877813 | 9.996221 | 10 | |
| 33 | 0 | 9.118567 | 159 | 9.122348 | 162 | 0.877652 | 9.996219 | 0 | 27 |
| | 10 | 9.118726 | 158 | 9.122510 | 161 | 0.877490 | 9.996216 | 50 | |
| | 20 | 9.118884 | 159 | 9.122671 | 162 | 0.877329 | 9.996213 | 40 | |
| | 30 | 9.119043 | 159 | 9.122833 | 161 | 0.877167 | 9.996210 | 30 | |
| | 40 | 9.119202 | 158 | 9.122994 | 162 | 0.877006 | 9.996207 | 20 | |
| | 50 | 9.119360 | 159 | 9.123156 | 161 | 0.876844 | 9.996205 | 10 | |
| 34 | 0 | 9.119519 | 158 | 9.123317 | 161 | 0.876683 | 9.996202 | 0 | 26 |
| | 10 | 9.119677 | 159 | 9.123478 | 162 | 0.876522 | 9.996199 | 50 | |
| | 20 | 9.119836 | 158 | 9.123640 | 161 | 0.876360 | 9.996196 | 40 | |
| | 30 | 9.119994 | 158 | 9.123801 | 161 | 0.876199 | 9.996193 | 30 | |
| | 40 | 9.120152 | 159 | 9.123962 | 161 | 0.876038 | 9.996191 | 20 | |
| | 50 | 9.120311 | 158 | 9.124123 | 161 | 0.875877 | 9.996188 | 10 | |
| 35 | 0 | 9.120469 | 158 | 9.124284 | 161 | 0.875716 | 9.996185 | 0 | 25 |
| | 10 | 9.120627 | 158 | 9.124445 | 161 | 0.875555 | 9.996182 | 50 | |
| | 20 | 9.120785 | 158 | 9.124606 | 160 | 0.875394 | 9.996179 | 40 | |
| | 30 | 9.120943 | 158 | 9.124766 | 161 | 0.875234 | 9.996177 | 30 | |
| | 40 | 9.121101 | 158 | 9.124927 | 161 | 0.875073 | 9.996174 | 20 | |
| | 50 | 9.121259 | 158 | 9.125088 | 161 | 0.874912 | 9.996171 | 10 | |
| 36 | 0 | 9.121417 | 157 | 9.125249 | 160 | 0.874751 | 9.996168 | 0 | 24 |
| | 10 | 9.121574 | 158 | 9.125409 | 161 | 0.874590 | 9.996165 | 50 | |
| | 20 | 9.121732 | 158 | 9.125570 | 160 | 0.874430 | 9.996162 | 40 | |
| | 30 | 9.121890 | 157 | 9.125730 | 161 | 0.874270 | 9.996160 | 30 | |
| | 40 | 9.122047 | 158 | 9.125891 | 160 | 0.874109 | 9.996157 | 20 | |
| | 50 | 9.122205 | 157 | 9.126051 | 160 | 0.873949 | 9.996155 | 10 | |
| 37 | 0 | 9.122362 | 157 | 9.126211 | 160 | 0.873788 | 9.996152 | 0 | 23 |
| | 10 | 9.122520 | 157 | 9.126371 | 161 | 0.873629 | 9.996148 | 50 | |
| | 20 | 9.122677 | 158 | 9.126532 | 160 | 0.873468 | 9.996146 | 40 | |
| | 30 | 9.122835 | 157 | 9.126692 | 160 | 0.873308 | 9.996143 | 30 | |
| | 40 | 9.122992 | 157 | 9.126852 | 160 | 0.873148 | 9.996140 | 20 | |
| | 50 | 9.123149 | 157 | 9.127012 | 160 | 0.872988 | 9.996137 | 10 | |
| 38 | 0 | 9.123306 | 157 | 9.127172 | 160 | 0.872828 | 9.996134 | 0 | 22 |
| | 10 | 9.123463 | 157 | 9.127332 | 160 | 0.872668 | 9.996131 | 50 | |
| | 20 | 9.123620 | 157 | 9.127492 | 159 | 0.872508 | 9.996129 | 40 | |
| | 30 | 9.123777 | 157 | 9.127651 | 160 | 0.872349 | 9.996126 | 30 | |
| | 40 | 9.123934 | 157 | 9.127811 | 160 | 0.872189 | 9.996123 | 20 | |
| | 50 | 9.124091 | 157 | 9.127971 | 159 | 0.872029 | 9.996120 | 10 | |
| 39 | 0 | 9.124248 | 156 | 9.128130 | 160 | 0.871870 | 9.996117 | 0 | 21 |
| | 10 | 9.124404 | 157 | 9.128290 | 159 | 0.871710 | 9.996115 | 50 | |
| | 20 | 9.124561 | 157 | 9.128449 | 160 | 0.871551 | 9.996112 | 40 | |
| | 30 | 9.124718 | 156 | 9.128609 | 159 | 0.871391 | 9.996109 | 30 | |
| | 40 | 9.124874 | 157 | 9.128768 | 160 | 0.871232 | 9.996106 | 20 | |
| | 50 | 9.125031 | 156 | 9.128928 | 159 | 0.871072 | 9.996103 | 10 | |
| 40 | 0 | 9.125187 | 156 | 9.129087 | 159 | 0.870913 | 9.996100 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

161
1 16.1
2 32.2
3 48.3
4 64.4
5 80.5
6 96.6
7 112.7
8 128.8
9 144.9

160
1 16.0
2 32.0
3 48.0
4 64.0
5 80.0
6 96.0
7 112.0
8 128.0
9 144.0

159
1 15.9
2 31.8
3 47.7
4 63.6
5 79.5
6 95.4
7 111.3
8 127.2
9 143.1

158
1 15.8
2 31.6
3 47.4
4 63.2
5 79.0
6 94.8
7 110.6
8 126.4
9 142.2

157
1 15.7
2 31.4
3 47.1
4 62.8
5 78.5
6 94.2
7 109.9
8 125.6
9 141.3

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4 62.8
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6 94.2
7 109.9
8 125.6
9 141.3

156
1 15.6
2 31.2
3 46.8
4 62.4
5 78.0
6 93.6
7 109.2
8 124.8
9 140.4

155
1 15.5
2 31.0
3 46.5
4 62.0
5 77.5
6 93.0
7 108.5
8 124.0
9 139.5

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 40 | 0 | 9.125187 | 157 | 9.129087 | 159 | 0.870913 | 9.996100 | 0 | 20 |
| | 10 | 9.125344 | 156 | 9.129246 | 159 | 0.870754 | 9.996098 | 50 | |
| | 20 | 9.125500 | 156 | 9.129405 | 159 | 0.870595 | 9.996095 | 40 | |
| | 30 | 9.125656 | 156 | 9.129564 | 159 | 0.870436 | 9.996092 | 30 | |
| | 40 | 9.125812 | 157 | 9.129723 | 159 | 0.870277 | 9.996089 | 20 | |
| | 50 | 9.125969 | 156 | 9.129882 | 159 | 0.870118 | 9.996086 | 10 | |
| 41 | 0 | 9.126125 | 156 | 9.130041 | 159 | 0.869959 | 9.996083 | 0 | 19 |
| | 10 | 9.126281 | 156 | 9.130200 | 159 | 0.869800 | 9.996081 | 50 | |
| | 20 | 9.126437 | 156 | 9.130359 | 159 | 0.869641 | 9.996078 | 40 | |
| | 30 | 9.126593 | 155 | 9.130518 | 158 | 0.869482 | 9.996075 | 30 | |
| | 40 | 9.126748 | 156 | 9.130676 | 159 | 0.869324 | 9.996072 | 20 | |
| | 50 | 9.126904 | 156 | 9.130835 | 159 | 0.869165 | 9.996069 | 10 | |
| 42 | 0 | 9.127060 | 156 | 9.130994 | 158 | 0.869006 | 9.996066 | 0 | 18 |
| | 10 | 9.127216 | 155 | 9.131152 | 159 | 0.868848 | 9.996063 | 50 | |
| | 20 | 9.127371 | 156 | 9.131311 | 158 | 0.868689 | 9.996061 | 40 | |
| | 30 | 9.127527 | 155 | 9.131469 | 159 | 0.868531 | 9.996058 | 30 | |
| | 40 | 9.127682 | 156 | 9.131628 | 158 | 0.868372 | 9.996055 | 20 | |
| | 50 | 9.127838 | 155 | 9.131786 | 158 | 0.868214 | 9.996052 | 10 | |
| 43 | 0 | 9.127993 | 156 | 9.131944 | 158 | 0.868056 | 9.996049 | 0 | 17 |
| | 10 | 9.128149 | 155 | 9.132102 | 159 | 0.867898 | 9.996046 | 50 | |
| | 20 | 9.128304 | 155 | 9.132261 | 158 | 0.867739 | 9.996043 | 40 | |
| | 30 | 9.128459 | 155 | 9.132419 | 158 | 0.867581 | 9.996041 | 30 | |
| | 40 | 9.128614 | 156 | 9.132577 | 158 | 0.867423 | 9.996038 | 20 | |
| | 50 | 9.128770 | 155 | 9.132735 | 158 | 0.867265 | 9.996035 | 10 | |
| 44 | 0 | 9.128925 | 155 | 9.132893 | 157 | 0.867107 | 9.996032 | 0 | 16 |
| | 10 | 9.129080 | 155 | 9.133050 | 158 | 0.866950 | 9.996029 | 50 | |
| | 20 | 9.129235 | 155 | 9.133208 | 158 | 0.866792 | 9.996026 | 40 | |
| | 30 | 9.129390 | 154 | 9.133366 | 158 | 0.866634 | 9.996023 | 30 | |
| | 40 | 9.129544 | 155 | 9.133524 | 157 | 0.866476 | 9.996021 | 20 | |
| | 50 | 9.129699 | 155 | 9.133681 | 158 | 0.866319 | 9.996018 | 10 | |
| 45 | 0 | 9.129854 | 155 | 9.133839 | 158 | 0.866161 | 9.996015 | 0 | 15 |
| | 10 | 9.130009 | 154 | 9.133997 | 157 | 0.866003 | 9.996012 | 50 | |
| | 20 | 9.130163 | 155 | 9.134154 | 158 | 0.865846 | 9.996009 | 40 | |
| | 30 | 9.130318 | 154 | 9.134312 | 157 | 0.865688 | 9.996006 | 30 | |
| | 40 | 9.130472 | 155 | 9.134469 | 157 | 0.865531 | 9.996003 | 20 | |
| | 50 | 9.130627 | 154 | 9.134626 | 157 | 0.865374 | 9.996001 | 10 | |
| 46 | 0 | 9.130781 | 154 | 9.134784 | 157 | 0.865216 | 9.995998 | 0 | 14 |
| | 10 | 9.130936 | 154 | 9.134941 | 157 | 0.865059 | 9.995995 | 50 | |
| | 20 | 9.131090 | 154 | 9.135098 | 157 | 0.864902 | 9.995992 | 40 | |
| | 30 | 9.131244 | 154 | 9.135255 | 157 | 0.864745 | 9.995989 | 30 | |
| | 40 | 9.131398 | 154 | 9.135412 | 157 | 0.864588 | 9.995986 | 20 | |
| | 50 | 9.131552 | 154 | 9.135569 | 157 | 0.864431 | 9.995983 | 10 | |
| 47 | 0 | 9.131706 | 154 | 9.135726 | 157 | 0.864274 | 9.995980 | 0 | 13 |
| | 10 | 9.131860 | 154 | 9.135883 | 157 | 0.864117 | 9.995978 | 50 | |
| | 20 | 9.132014 | 154 | 9.136040 | 157 | 0.863960 | 9.995975 | 40 | |
| | 30 | 9.132168 | 154 | 9.136197 | 156 | 0.863803 | 9.995972 | 30 | |
| | 40 | 9.132322 | 154 | 9.136353 | 157 | 0.863647 | 9.995969 | 20 | |
| | 50 | 9.132476 | 154 | 9.136510 | 157 | 0.863490 | 9.995966 | 10 | |
| 48 | 0 | 9.132630 | 154 | 9.136667 | 157 | 0.863333 | 9.995963 | 0 | 12 |
| | 10 | 9.132783 | 153 | 9.136823 | 156 | 0.863177 | 9.995960 | 50 | |
| | 20 | 9.132937 | 154 | 9.136980 | 157 | 0.863020 | 9.995957 | 40 | |
| | 30 | 9.133091 | 154 | 9.137136 | 156 | 0.862864 | 9.995954 | 30 | |
| | 40 | 9.133244 | 153 | 9.137292 | 156 | 0.862708 | 9.995952 | 20 | |
| | 50 | 9.133398 | 154 | 9.137449 | 157 | 0.862551 | 9.995949 | 10 | |
| 49 | 0 | 9.133551 | 153 | 9.137605 | 156 | 0.862395 | 9.995946 | 0 | 11 |
| | 10 | 9.133704 | 153 | 9.137761 | 156 | 0.862239 | 9.995943 | 50 | |
| | 20 | 9.133858 | 154 | 9.137918 | 157 | 0.862082 | 9.995940 | 40 | |
| | 30 | 9.134011 | 153 | 9.138074 | 156 | 0.861926 | 9.995937 | 30 | |
| | 40 | 9.134164 | 153 | 9.138230 | 156 | 0.861770 | 9.995934 | 20 | |
| | 50 | 9.134317 | 153 | 9.138386 | 156 | 0.861614 | 9.995931 | 10 | |
| 50 | 0 | 9.134470 | 153 | 9.138542 | 156 | 0.861458 | 9.995928 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 50 | 0 | 9.134470 | 153 | 9.138542 | 156 | 0.861458 | 9.995928 | 0 | 10 |
| | 10 | 9.134623 | 153 | 9.138698 | 156 | 0.861302 | 9.995926 | 50 | |
| | 20 | 9.134776 | 153 | 9.138854 | 156 | 0.861146 | 9.995923 | 40 | |
| | 30 | 9.134929 | 153 | 9.139009 | 155 | 0.860991 | 9.995920 | 30 | |
| | 40 | 9.135082 | 153 | 9.139165 | 156 | 0.860835 | 9.995917 | 20 | |
| | 50 | 9.135235 | 152 | 9.139321 | 155 | 0.860679 | 9.995914 | 10 | |
| 51 | 0 | 9.135387 | 153 | 9.139476 | 156 | 0.860524 | 9.995911 | 0 | 9 |
| | 10 | 9.135540 | 153 | 9.139632 | 156 | 0.860368 | 9.995908 | 50 | |
| | 20 | 9.135693 | 152 | 9.139788 | 155 | 0.860212 | 9.995905 | 40 | |
| | 30 | 9.135845 | 153 | 9.139943 | 155 | 0.860057 | 9.995902 | 30 | |
| | 40 | 9.135998 | 152 | 9.140098 | 156 | 0.859902 | 9.995899 | 20 | |
| | 50 | 9.136150 | 153 | 9.140254 | 155 | 0.859746 | 9.995897 | 10 | |
| 52 | 0 | 9.136303 | 152 | 9.140409 | 155 | 0.859591 | 9.995894 | 0 | 8 |
| | 10 | 9.136455 | 152 | 9.140564 | 156 | 0.859436 | 9.995891 | 50 | |
| | 20 | 9.136607 | 153 | 9.140720 | 155 | 0.859280 | 9.995888 | 40 | |
| | 30 | 9.136760 | 152 | 9.140875 | 155 | 0.859125 | 9.995885 | 30 | |
| | 40 | 9.136912 | 152 | 9.141030 | 155 | 0.858970 | 9.995882 | 20 | |
| | 50 | 9.137064 | 152 | 9.141185 | 155 | 0.858815 | 9.995879 | 10 | |
| 53 | 0 | 9.137216 | 152 | 9.141340 | 155 | 0.858660 | 9.995876 | 0 | 7 |
| | 10 | 9.137368 | 152 | 9.141495 | 155 | 0.858505 | 9.995873 | 50 | |
| | 20 | 9.137520 | 152 | 9.141650 | 155 | 0.858350 | 9.995870 | 40 | |
| | 30 | 9.137672 | 152 | 9.141805 | 154 | 0.858195 | 9.995867 | 30 | |
| | 40 | 9.137824 | 152 | 9.141959 | 155 | 0.858041 | 9.995864 | 20 | |
| | 50 | 9.137976 | 152 | 9.142114 | 155 | 0.857886 | 9.995862 | 10 | |
| 54 | 0 | 9.138128 | 151 | 9.142269 | 155 | 0.857731 | 9.995859 | 0 | 6 |
| | 10 | 9.138279 | 152 | 9.142424 | 155 | 0.857576 | 9.995856 | 50 | |
| | 20 | 9.138431 | 151 | 9.142578 | 154 | 0.857422 | 9.995853 | 40 | |
| | 30 | 9.138582 | 152 | 9.142733 | 155 | 0.857267 | 9.995850 | 30 | |
| | 40 | 9.138734 | 152 | 9.142887 | 154 | 0.857113 | 9.995847 | 20 | |
| | 50 | 9.138886 | 151 | 9.143042 | 154 | 0.856958 | 9.995844 | 10 | |
| 55 | 0 | 9.139037 | 151 | 9.143196 | 154 | 0.856804 | 9.995841 | 0 | 5 |
| | 10 | 9.139188 | 152 | 9.143350 | 154 | 0.856650 | 9.995838 | 50 | |
| | 20 | 9.139340 | 151 | 9.143504 | 155 | 0.856496 | 9.995835 | 40 | |
| | 30 | 9.139491 | 151 | 9.143659 | 155 | 0.856341 | 9.995832 | 30 | |
| | 40 | 9.139642 | 151 | 9.143813 | 154 | 0.856187 | 9.995829 | 20 | |
| | 50 | 9.139793 | 151 | 9.143967 | 154 | 0.856033 | 9.995826 | 10 | |
| 56 | 0 | 9.139944 | 152 | 9.144121 | 154 | 0.855879 | 9.995823 | 0 | 4 |
| | 10 | 9.140096 | 151 | 9.144275 | 154 | 0.855725 | 9.995821 | 50 | |
| | 20 | 9.140247 | 151 | 9.144429 | 154 | 0.855571 | 9.995818 | 40 | |
| | 30 | 9.140398 | 150 | 9.144583 | 154 | 0.855417 | 9.995815 | 30 | |
| | 40 | 9.140548 | 151 | 9.144737 | 154 | 0.855263 | 9.995812 | 20 | |
| | 50 | 9.140699 | 151 | 9.144890 | 153 | 0.855110 | 9.995809 | 10 | |
| 57 | 0 | 9.140850 | 151 | 9.145044 | 154 | 0.854956 | 9.995806 | 0 | 3 |
| | 10 | 9.141001 | 150 | 9.145198 | 154 | 0.854802 | 9.995803 | 50 | |
| | 20 | 9.141151 | 151 | 9.145351 | 153 | 0.854649 | 9.995800 | 40 | |
| | 30 | 9.141302 | 151 | 9.145505 | 154 | 0.854495 | 9.995797 | 30 | |
| | 40 | 9.141453 | 150 | 9.145659 | 154 | 0.854341 | 9.995794 | 20 | |
| | 50 | 9.141603 | 151 | 9.145812 | 153 | 0.854188 | 9.995791 | 10 | |
| 58 | 0 | 9.141754 | 150 | 9.145966 | 154 | 0.854034 | 9.995788 | 0 | 2 |
| | 10 | 9.141904 | 151 | 9.146119 | 153 | 0.853881 | 9.995785 | 50 | |
| | 20 | 9.142055 | 150 | 9.146272 | 153 | 0.853728 | 9.995782 | 40 | |
| | 30 | 9.142205 | 150 | 9.146425 | 153 | 0.853575 | 9.995779 | 30 | |
| | 40 | 9.142355 | 150 | 9.146579 | 154 | 0.853421 | 9.995776 | 20 | |
| | 50 | 9.142505 | 150 | 9.146732 | 153 | 0.853268 | 9.995773 | 10 | |
| 59 | 0 | 9.142655 | 150 | 9.146885 | 153 | 0.853115 | 9.995771 | 0 | 1 |
| | 10 | 9.142806 | 151 | 9.147038 | 153 | 0.852962 | 9.995768 | 50 | |
| | 20 | 9.142956 | 150 | 9.147191 | 153 | 0.852809 | 9.995765 | 40 | |
| | 30 | 9.143106 | 150 | 9.147344 | 153 | 0.852656 | 9.995762 | 30 | |
| | 40 | 9.143256 | 150 | 9.147497 | 153 | 0.852503 | 9.995759 | 20 | |
| | 50 | 9.143405 | 149 | 9.147650 | 153 | 0.852350 | 9.995756 | 10 | |
| 60 | 0 | 9.143555 | 150 | 9.147803 | 153 | 0.852197 | 9.995753 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

154
1 15.4
2 30.8
3 46.2
4 61.6
5 77.0
6 92.4
7 107.8
8 123.2
9 138.6

153
1 15.3
2 30.6
3 45.9
4 61.2
5 76.5
6 91.8
7 107.1
8 122.4
9 137.7

152
1 15.2
2 30.4
3 45.6
4 60.8
5 76.0
6 91.2
7 106.4
8 121.6
9 136.8

151
1 15.1
2 30.2
3 45.3
4 60.4
5 75.5
6 90.6
7 105.7
8 120.8
9 135.9

150
1 15.0
2 30.0
3 45.0
4 60.0
5 75.0
6 90.0
7 105.0
8 120.0
9 135.0

153
1 15.3
2 30.6
3 45.9
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6 91.8
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152
1 15.2
2 30.4
3 45.6
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5 76.0
6 91.2
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151
1 15.1
2 30.2
3 45.3
4 60.4
5 75.5
6 90.6
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150
1 15.0
2 30.0
3 45.0
4 60.0
5 75.0
6 90.0
7 105.0
8 120.0
9 135.0

149
1 14.9
2 29.8
3 44.7
4 59.6
5 74.5
6 89.4
7 104.3
8 119.2
9 134.1

| | | Sin | d. | Tang | d. c. | Cotg | Cos | | |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 0 | 0 | 9.143555 | 150 | 9.147803 | 152 | 0.852197 | 9.995753 | 0 | 60 |
| | 10 | 9.143705 | 150 | 9.147955 | 153 | 0.852045 | 9.995750 | 50 | |
| | 20 | 9.143855 | 150 | 9.148108 | 153 | 0.851892 | 9.995747 | 40 | |
| | 30 | 9.144005 | 150 | 9.148261 | 153 | 0.851739 | 9.995744 | 30 | |
| | 40 | 9.144154 | 150 | 9.148413 | 153 | 0.851587 | 9.995741 | 20 | |
| | 50 | 9.144304 | 149 | 9.148566 | 152 | 0.851434 | 9.995738 | 10 | |
| 1 | 0 | 9.144453 | 150 | 9.148718 | 153 | 0.851282 | 9.995735 | 0 | 59 |
| | 10 | 9.144603 | 149 | 9.148871 | 152 | 0.851129 | 9.995732 | 50 | |
| | 20 | 9.144752 | 150 | 9.149023 | 152 | 0.850977 | 9.995729 | 40 | |
| | 30 | 9.144902 | 149 | 9.149175 | 151 | 0.850825 | 9.995726 | 30 | |
| | 40 | 9.145051 | 149 | 9.149328 | 152 | 0.850672 | 9.995723 | 20 | |
| | 50 | 9.145200 | 149 | 9.149480 | 152 | 0.850520 | 9.995720 | 10 | |
| 2 | 0 | 9.145349 | 149 | 9.149632 | 152 | 0.850368 | 9.995717 | 0 | 58 |
| | 10 | 9.145498 | 150 | 9.149784 | 152 | 0.850216 | 9.995714 | 50 | |
| | 20 | 9.145648 | 149 | 9.149936 | 152 | 0.850064 | 9.995711 | 40 | |
| | 30 | 9.145797 | 149 | 9.150088 | 152 | 0.849912 | 9.995708 | 30 | |
| | 40 | 9.145946 | 149 | 9.150240 | 152 | 0.849760 | 9.995705 | 20 | |
| | 50 | 9.146095 | 148 | 9.150392 | 152 | 0.849608 | 9.995702 | 10 | |
| 3 | 0 | 9.146243 | 149 | 9.150544 | 152 | 0.849456 | 9.995699 | 0 | 57 |
| | 10 | 9.146392 | 149 | 9.150696 | 152 | 0.849304 | 9.995696 | 50 | |
| | 20 | 9.146541 | 149 | 9.150848 | 151 | 0.849152 | 9.995693 | 40 | |
| | 30 | 9.146690 | 149 | 9.150999 | 152 | 0.849001 | 9.995690 | 30 | |
| | 40 | 9.146839 | 148 | 9.151151 | 152 | 0.848849 | 9.995687 | 20 | |
| | 50 | 9.146987 | 149 | 9.151303 | 151 | 0.848697 | 9.995684 | 10 | |
| 4 | 0 | 9.147136 | 148 | 9.151454 | 152 | 0.848546 | 9.995681 | 0 | 56 |
| | 10 | 9.147284 | 149 | 9.151606 | 151 | 0.848394 | 9.995678 | 50 | |
| | 20 | 9.147433 | 148 | 9.151757 | 152 | 0.848243 | 9.995675 | 40 | |
| | 30 | 9.147581 | 149 | 9.151909 | 151 | 0.848091 | 9.995672 | 30 | |
| | 40 | 9.147730 | 148 | 9.152060 | 151 | 0.847940 | 9.995670 | 20 | |
| | 50 | 9.147878 | 148 | 9.152211 | 152 | 0.847789 | 9.995667 | 10 | |
| 5 | 0 | 9.148026 | 148 | 9.152363 | 151 | 0.847637 | 9.995664 | 0 | 55 |
| | 10 | 9.148174 | 149 | 9.152514 | 151 | 0.847486 | 9.995661 | 50 | |
| | 20 | 9.148323 | 148 | 9.152665 | 151 | 0.847335 | 9.995658 | 40 | |
| | 30 | 9.148471 | 148 | 9.152816 | 151 | 0.847184 | 9.995655 | 30 | |
| | 40 | 9.148619 | 148 | 9.152967 | 151 | 0.847033 | 9.995652 | 20 | |
| | 50 | 9.148767 | 148 | 9.153118 | 151 | 0.846882 | 9.995649 | 10 | |
| 6 | 0 | 9.148915 | 148 | 9.153269 | 151 | 0.846731 | 9.995646 | 0 | 54 |
| | 10 | 9.149063 | 148 | 9.153420 | 151 | 0.846580 | 9.995643 | 50 | |
| | 20 | 9.149211 | 147 | 9.153571 | 151 | 0.846429 | 9.995640 | 40 | |
| | 30 | 9.149358 | 147 | 9.153722 | 151 | 0.846278 | 9.995637 | 30 | |
| | 40 | 9.149506 | 148 | 9.153873 | 150 | 0.846127 | 9.995634 | 20 | |
| | 50 | 9.149654 | 148 | 9.154023 | 150 | 0.845977 | 9.995631 | 10 | |
| 7 | 0 | 9.149802 | 147 | 9.154174 | 151 | 0.845826 | 9.995628 | 0 | 53 |
| | 10 | 9.149949 | 148 | 9.154325 | 150 | 0.845675 | 9.995625 | 50 | |
| | 20 | 9.150097 | 147 | 9.154475 | 151 | 0.845525 | 9.995622 | 40 | |
| | 30 | 9.150244 | 147 | 9.154626 | 150 | 0.845374 | 9.995619 | 30 | |
| | 40 | 9.150392 | 147 | 9.154776 | 150 | 0.845224 | 9.995616 | 20 | |
| | 50 | 9.150539 | 147 | 9.154926 | 151 | 0.845074 | 9.995613 | 10 | |
| 8 | 0 | 9.150686 | 148 | 9.155077 | 150 | 0.844923 | 9.995610 | 0 | 52 |
| | 10 | 9.150834 | 147 | 9.155227 | 150 | 0.844773 | 9.995607 | 50 | |
| | 20 | 9.150981 | 147 | 9.155377 | 151 | 0.844623 | 9.995604 | 40 | |
| | 30 | 9.151128 | 147 | 9.155528 | 150 | 0.844472 | 9.995601 | 30 | |
| | 40 | 9.151275 | 147 | 9.155678 | 150 | 0.844322 | 9.995597 | 20 | |
| | 50 | 9.151422 | 147 | 9.155828 | 150 | 0.844172 | 9.995594 | 10 | |
| 9 | 0 | 9.151569 | 147 | 9.155978 | 150 | 0.844022 | 9.995591 | 0 | 51 |
| | 10 | 9.151716 | 147 | 9.156128 | 150 | 0.843872 | 9.995588 | 50 | |
| | 20 | 9.151863 | 147 | 9.156278 | 150 | 0.843722 | 9.995585 | 40 | |
| | 30 | 9.152010 | 147 | 9.156428 | 150 | 0.843572 | 9.995582 | 30 | |
| | 40 | 9.152157 | 147 | 9.156578 | 150 | 0.843422 | 9.995579 | 20 | |
| | 50 | 9.152304 | 147 | 9.156728 | 150 | 0.843272 | 9.995576 | 10 | |
| 10 | 0 | 9.152451 | 147 | 9.156877 | 149 | 0.843123 | 9.995573 | 0 | 50 |
| | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 10 | 0 | 9.152451 | 146 | 9.156877 | 150 | 0.843123 | 9.995573 | 0 | 50 |
| | 10 | 9.152597 | 147 | 9.157027 | 150 | 0.842973 | 9.995570 | 50 | |
| | 20 | 9.152744 | 147 | 9.157177 | 149 | 0.842823 | 9.995567 | 40 | |
| | 30 | 9.152891 | 146 | 9.157326 | 150 | 0.842674 | 9.995564 | 30 | |
| | 40 | 9.153037 | 147 | 9.157476 | 149 | 0.842524 | 9.995561 | 20 | |
| | 50 | 9.153184 | 146 | 9.157625 | 150 | 0.842375 | 9.995558 | 10 | |
| 11 | 0 | 9.153330 | 146 | 9.157775 | 149 | 0.842225 | 9.995555 | 0 | 49 |
| | 10 | 9.153476 | 147 | 9.157924 | 150 | 0.842076 | 9.995552 | 50 | |
| | 20 | 9.153623 | 146 | 9.158074 | 149 | 0.841926 | 9.995549 | 40 | |
| | 30 | 9.153769 | 146 | 9.158223 | 149 | 0.841777 | 9.995546 | 30 | |
| | 40 | 9.153915 | 146 | 9.158372 | 149 | 0.841628 | 9.995543 | 20 | |
| | 50 | 9.154061 | 147 | 9.158521 | 150 | 0.841479 | 9.995540 | 10 | |
| 12 | 0 | 9.154208 | 146 | 9.158671 | 149 | 0.841329 | 9.995537 | 0 | 48 |
| | 10 | 9.154354 | 146 | 9.158820 | 149 | 0.841180 | 9.995534 | 50 | |
| | 20 | 9.154500 | 146 | 9.158969 | 149 | 0.841031 | 9.995531 | 40 | |
| | 30 | 9.154646 | 146 | 9.159118 | 149 | 0.840882 | 9.995528 | 30 | |
| | 40 | 9.154792 | 146 | 9.159267 | 149 | 0.840733 | 9.995525 | 20 | |
| | 50 | 9.154938 | 145 | 9.159416 | 149 | 0.840584 | 9.995522 | 10 | |
| 13 | 0 | 9.155083 | 146 | 9.159565 | 148 | 0.840435 | 9.995519 | 0 | 47 |
| | 10 | 9.155229 | 146 | 9.159713 | 149 | 0.840287 | 9.995516 | 50 | |
| | 20 | 9.155375 | 146 | 9.159862 | 149 | 0.840138 | 9.995513 | 40 | |
| | 30 | 9.155521 | 146 | 9.160011 | 149 | 0.839989 | 9.995510 | 30 | |
| | 40 | 9.155666 | 145 | 9.160160 | 149 | 0.839840 | 9.995507 | 20 | |
| | 50 | 9.155812 | 146 | 9.160308 | 148 | 0.839692 | 9.995504 | 10 | |
| 14 | 0 | 9.155957 | 146 | 9.160457 | 149 | 0.839543 | 9.995501 | 0 | 46 |
| | 10 | 9.156103 | 145 | 9.160605 | 149 | 0.839395 | 9.995497 | 50 | |
| | 20 | 9.156248 | 146 | 9.160754 | 148 | 0.839246 | 9.995494 | 40 | |
| | 30 | 9.156394 | 146 | 9.160902 | 148 | 0.839098 | 9.995491 | 30 | |
| | 40 | 9.156539 | 145 | 9.161051 | 149 | 0.838949 | 9.995488 | 20 | |
| | 50 | 9.156684 | 145 | 9.161199 | 148 | 0.838801 | 9.995485 | 10 | |
| 15 | 0 | 9.156830 | 145 | 9.161347 | 149 | 0.838653 | 9.995482 | 0 | 45 |
| | 10 | 9.156975 | 145 | 9.161496 | 148 | 0.838504 | 9.995479 | 50 | |
| | 20 | 9.157120 | 145 | 9.161644 | 148 | 0.838356 | 9.995476 | 40 | |
| | 30 | 9.157265 | 145 | 9.161792 | 148 | 0.838208 | 9.995473 | 30 | |
| | 40 | 9.157410 | 145 | 9.161940 | 148 | 0.838060 | 9.995470 | 20 | |
| | 50 | 9.157555 | 145 | 9.162088 | 148 | 0.837912 | 9.995467 | 10 | |
| 16 | 0 | 9.157700 | 145 | 9.162236 | 148 | 0.837764 | 9.995464 | 0 | 44 |
| | 10 | 9.157845 | 145 | 9.162384 | 148 | 0.837616 | 9.995461 | 50 | |
| | 20 | 9.157990 | 145 | 9.162532 | 148 | 0.837468 | 9.995458 | 40 | |
| | 30 | 9.158135 | 145 | 9.162680 | 148 | 0.837320 | 9.995455 | 30 | |
| | 40 | 9.158279 | 144 | 9.162828 | 148 | 0.837172 | 9.995452 | 20 | |
| | 50 | 9.158424 | 145 | 9.162975 | 147 | 0.837025 | 9.995449 | 10 | |
| 17 | 0 | 9.158569 | 145 | 9.163123 | 148 | 0.836877 | 9.995446 | 0 | 43 |
| | 10 | 9.158713 | 144 | 9.163271 | 148 | 0.836729 | 9.995442 | 50 | |
| | 20 | 9.158858 | 145 | 9.163418 | 147 | 0.836582 | 9.995439 | 40 | |
| | 30 | 9.159002 | 144 | 9.163566 | 148 | 0.836434 | 9.995436 | 30 | |
| | 40 | 9.159147 | 145 | 9.163713 | 147 | 0.836287 | 9.995433 | 20 | |
| | 50 | 9.159291 | 144 | 9.163861 | 148 | 0.836139 | 9.995430 | 10 | |
| 18 | 0 | 9.159435 | 144 | 9.164008 | 147 | 0.835992 | 9.995427 | 0 | 42 |
| | 10 | 9.159580 | 145 | 9.164156 | 148 | 0.835844 | 9.995424 | 50 | |
| | 20 | 9.159724 | 144 | 9.164303 | 147 | 0.835697 | 9.995421 | 40 | |
| | 30 | 9.159868 | 144 | 9.164450 | 147 | 0.835550 | 9.995418 | 30 | |
| | 40 | 9.160012 | 144 | 9.164598 | 148 | 0.835402 | 9.995415 | 20 | |
| | 50 | 9.160156 | 144 | 9.164745 | 147 | 0.835255 | 9.995412 | 10 | |
| 19 | 0 | 9.160301 | 145 | 9.164892 | 147 | 0.835108 | 9.995409 | 0 | 41 |
| | 10 | 9.160445 | 144 | 9.165039 | 147 | 0.834961 | 9.995406 | 50 | |
| | 20 | 9.160589 | 144 | 9.165186 | 147 | 0.834814 | 9.995403 | 40 | |
| | 30 | 9.160732 | 143 | 9.165333 | 147 | 0.834667 | 9.995399 | 30 | |
| | 40 | 9.160876 | 144 | 9.165480 | 147 | 0.834520 | 9.995396 | 20 | |
| | 50 | 9.161020 | 144 | 9.165627 | 147 | 0.834373 | 9.995393 | 10 | |
| 20 | 0 | 9.161164 | 144 | 9.165774 | 147 | 0.834226 | 9.995390 | 0 | 40 |

148
29.6
44.4
59.2
74.0
88.8
103.6
118.4
133.2

147
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44.1
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73.5
88.2
102.9
117.6
132.3

146
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29.2
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58.4
73.0
87.6
102.8
117.4

145
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87.0
101.5
116.0
130.5

144
14.4
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43.2
57.6
72.0
86.4
100.8
115.2
129.6

147

1 14.7

2 29.4

3 44.1

4 58.8

5 73.5

6 88.2

7 102.9

8 117.6

9 132.3

146

1 14.6

2 29.2

3 43.8

4 58.4

5 73.0

6 87.6

7 102.2

8 116.8

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145

1 14.5

2 29.0

3 43.5

4 58.0

5 72.5

6 87.0

7 101.5

8 116.0

9 130.5

144

1 14.4

2 28.8

3 43.2

4 57.6

5 72.0

6 86.4

7 100.8

8 115.2

9 129.6

143

1 14.3

2 28.6

3 42.9

4 57.2

5 71.5

6 85.8

7 100.1

8 114.4

9 128.7

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|------|----------|----------|----|----|
| 20 | 0 | 9.161164 | 144 | 9.165774 | 146 | 0.834226 | 9.995390 | 0 | 40 |
| | 10 | 9.161308 | 143 | 9.165920 | 147 | 0.834080 | 9.995387 | 50 | |
| | 20 | 9.161451 | 144 | 9.166067 | 147 | 0.833933 | 9.995384 | 40 | |
| | 30 | 9.161595 | 144 | 9.166214 | 147 | 0.833786 | 9.995381 | 30 | |
| | 40 | 9.161738 | 143 | 9.166361 | 147 | 0.833639 | 9.995378 | 20 | |
| | 50 | 9.161882 | 144 | 9.166507 | 146 | 0.833493 | 9.995375 | 10 | |
| 21 | 0 | 9.162025 | 143 | 9.166654 | 147 | 0.833346 | 9.995372 | 0 | 39 |
| | 10 | 9.162169 | 144 | 9.166800 | 146 | 0.833200 | 9.995369 | 50 | |
| | 20 | 9.162312 | 143 | 9.166947 | 147 | 0.833053 | 9.995365 | 40 | |
| | 30 | 9.162456 | 144 | 9.167093 | 146 | 0.832907 | 9.995362 | 30 | |
| | 40 | 9.162599 | 143 | 9.167240 | 147 | 0.832760 | 9.995359 | 20 | |
| | 50 | 9.162742 | 143 | 9.167386 | 146 | 0.832614 | 9.995356 | 10 | |
| 22 | 0 | 9.162885 | 143 | 9.167532 | 146 | 0.832468 | 9.995353 | 0 | 38 |
| | 10 | 9.163028 | 143 | 9.167678 | 146 | 0.832322 | 9.995350 | 50 | |
| | 20 | 9.163172 | 144 | 9.167825 | 147 | 0.832175 | 9.995347 | 40 | |
| | 30 | 9.163315 | 143 | 9.167971 | 146 | 0.832029 | 9.995344 | 30 | |
| | 40 | 9.163458 | 143 | 9.168117 | 146 | 0.831883 | 9.995341 | 20 | |
| | 50 | 9.163600 | 142 | 9.168263 | 146 | 0.831737 | 9.995338 | 10 | |
| 23 | 0 | 9.163743 | 143 | 9.168409 | 146 | 0.831591 | 9.995334 | 0 | 37 |
| | 10 | 9.163886 | 143 | 9.168555 | 146 | 0.831445 | 9.995331 | 50 | |
| | 20 | 9.164029 | 143 | 9.168701 | 146 | 0.831299 | 9.995328 | 40 | |
| | 30 | 9.164172 | 143 | 9.168847 | 146 | 0.831153 | 9.995325 | 30 | |
| | 40 | 9.164314 | 142 | 9.168992 | 145 | 0.831008 | 9.995322 | 20 | |
| | 50 | 9.164457 | 143 | 9.169138 | 146 | 0.830862 | 9.995319 | 10 | |
| 24 | 0 | 9.164600 | 143 | 9.169284 | 146 | 0.830716 | 9.995316 | 0 | 36 |
| | 10 | 9.164742 | 142 | 9.169430 | 146 | 0.830570 | 9.995313 | 50 | |
| | 20 | 9.164885 | 143 | 9.169575 | 145 | 0.830425 | 9.995310 | 40 | |
| | 30 | 9.165027 | 142 | 9.169721 | 146 | 0.830279 | 9.995307 | 30 | |
| | 40 | 9.165170 | 143 | 9.169866 | 145 | 0.830134 | 9.995303 | 20 | |
| | 50 | 9.165312 | 142 | 9.170012 | 146 | 0.829988 | 9.995300 | 10 | |
| 25 | 0 | 9.165454 | 142 | 9.170157 | 145 | 0.829843 | 9.995297 | 0 | 35 |
| | 10 | 9.165597 | 143 | 9.170303 | 146 | 0.829697 | 9.995294 | 50 | |
| | 20 | 9.165739 | 142 | 9.170448 | 145 | 0.829552 | 9.995291 | 40 | |
| | 30 | 9.165881 | 142 | 9.170593 | 145 | 0.829407 | 9.995288 | 30 | |
| | 40 | 9.166023 | 142 | 9.170739 | 146 | 0.829261 | 9.995285 | 20 | |
| | 50 | 9.166165 | 142 | 9.170884 | 145 | 0.829116 | 9.995282 | 10 | |
| 26 | 0 | 9.166307 | 142 | 9.171029 | 145 | 0.828971 | 9.995278 | 0 | 34 |
| | 10 | 9.166449 | 142 | 9.171174 | 145 | 0.828826 | 9.995275 | 50 | |
| | 20 | 9.166591 | 142 | 9.171319 | 145 | 0.828681 | 9.995272 | 40 | |
| | 30 | 9.166733 | 142 | 9.171464 | 145 | 0.828536 | 9.995269 | 30 | |
| | 40 | 9.166875 | 142 | 9.171609 | 145 | 0.828391 | 9.995266 | 20 | |
| | 50 | 9.167017 | 142 | 9.171754 | 145 | 0.828246 | 9.995263 | 10 | |
| 27 | 0 | 9.167159 | 142 | 9.171899 | 145 | 0.828101 | 9.995260 | 0 | 33 |
| | 10 | 9.167300 | 141 | 9.172044 | 145 | 0.827956 | 9.995257 | 50 | |
| | 20 | 9.167442 | 142 | 9.172188 | 144 | 0.827812 | 9.995253 | 40 | |
| | 30 | 9.167584 | 142 | 9.172333 | 145 | 0.827667 | 9.995250 | 30 | |
| | 40 | 9.167725 | 141 | 9.172478 | 145 | 0.827522 | 9.995247 | 20 | |
| | 50 | 9.167867 | 142 | 9.172623 | 145 | 0.827377 | 9.995244 | 10 | |
| 28 | 0 | 9.168008 | 141 | 9.172767 | 144 | 0.827233 | 9.995241 | 0 | 32 |
| | 10 | 9.168150 | 142 | 9.172912 | 145 | 0.827088 | 9.995238 | 50 | |
| | 20 | 9.168291 | 141 | 9.173056 | 144 | 0.826944 | 9.995235 | 40 | |
| | 30 | 9.168432 | 141 | 9.173201 | 145 | 0.826799 | 9.995232 | 30 | |
| | 40 | 9.168574 | 142 | 9.173345 | 144 | 0.826655 | 9.995228 | 20 | |
| | 50 | 9.168715 | 141 | 9.173489 | 144 | 0.826511 | 9.995225 | 10 | |
| 29 | 0 | 9.168856 | 141 | 9.173634 | 145 | 0.826366 | 9.995222 | 0 | 31 |
| | 10 | 9.168997 | 141 | 9.173778 | 144 | 0.826222 | 9.995219 | 50 | |
| | 20 | 9.169138 | 141 | 9.173922 | 144 | 0.826078 | 9.995216 | 40 | |
| | 30 | 9.169279 | 141 | 9.174067 | 145 | 0.825933 | 9.995213 | 30 | |
| | 40 | 9.169420 | 141 | 9.174211 | 144 | 0.825789 | 9.995210 | 20 | |
| | 50 | 9.169561 | 141 | 9.174355 | 144 | 0.825645 | 9.995206 | 10 | |
| 30 | 0 | 9.169702 | 141 | 9.174499 | 144 | 0.825501 | 9.995203 | 0 | 30 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|------|----------|----------|----|----|
| 30 | 0 | 9.169702 | 141 | 9.174499 | 144 | 0.825501 | 9.995203 | 0 | 30 |
| | 10 | 9.169843 | 141 | 9.174643 | 144 | 0.825357 | 9.995200 | 50 | |
| | 20 | 9.169984 | 141 | 9.174787 | 144 | 0.825213 | 9.995197 | 40 | |
| | 30 | 9.170125 | 140 | 9.174931 | 144 | 0.825069 | 9.995194 | 30 | |
| | 40 | 9.170265 | 141 | 9.175075 | 143 | 0.824925 | 9.995191 | 20 | |
| | 50 | 9.170406 | 141 | 9.175218 | 144 | 0.824782 | 9.995188 | 10 | |
| 31 | 0 | 9.170547 | 140 | 9.175362 | 144 | 0.824638 | 9.995184 | 0 | 29 |
| | 10 | 9.170687 | 140 | 9.175506 | 144 | 0.824494 | 9.995181 | 50 | |
| | 20 | 9.170828 | 141 | 9.175650 | 144 | 0.824350 | 9.995178 | 40 | |
| | 30 | 9.170968 | 141 | 9.175793 | 144 | 0.824207 | 9.995175 | 30 | |
| | 40 | 9.171109 | 140 | 9.175937 | 144 | 0.824063 | 9.995172 | 20 | |
| | 50 | 9.171249 | 140 | 9.176080 | 143 | 0.823920 | 9.995169 | 10 | |
| 32 | 0 | 9.171389 | 141 | 9.176224 | 144 | 0.823776 | 9.995165 | 0 | 28 |
| | 10 | 9.171530 | 140 | 9.176367 | 143 | 0.823633 | 9.995162 | 50 | |
| | 20 | 9.171670 | 140 | 9.176511 | 144 | 0.823489 | 9.995159 | 40 | |
| | 30 | 9.171810 | 140 | 9.176654 | 143 | 0.823346 | 9.995156 | 30 | |
| | 40 | 9.171950 | 140 | 9.176797 | 143 | 0.823203 | 9.995153 | 20 | |
| | 50 | 9.172090 | 140 | 9.176941 | 144 | 0.823059 | 9.995150 | 10 | |
| 33 | 0 | 9.172230 | 140 | 9.177084 | 143 | 0.822916 | 9.995146 | 0 | 27 |
| | 10 | 9.172370 | 140 | 9.177227 | 143 | 0.822773 | 9.995143 | 50 | |
| | 20 | 9.172510 | 140 | 9.177370 | 143 | 0.822630 | 9.995140 | 40 | |
| | 30 | 9.172650 | 140 | 9.177513 | 143 | 0.822487 | 9.995137 | 30 | |
| | 40 | 9.172790 | 140 | 9.177656 | 143 | 0.822344 | 9.995134 | 20 | |
| | 50 | 9.172930 | 140 | 9.177800 | 144 | 0.822200 | 9.995131 | 10 | |
| 34 | 0 | 9.173070 | 140 | 9.177942 | 142 | 0.822058 | 9.995127 | 0 | 26 |
| | 10 | 9.173210 | 140 | 9.178085 | 143 | 0.821915 | 9.995124 | 50 | |
| | 20 | 9.173349 | 139 | 9.178228 | 143 | 0.821772 | 9.995121 | 40 | |
| | 30 | 9.173489 | 140 | 9.178371 | 143 | 0.821629 | 9.995118 | 30 | |
| | 40 | 9.173629 | 140 | 9.178514 | 143 | 0.821486 | 9.995115 | 20 | |
| | 50 | 9.173768 | 139 | 9.178657 | 143 | 0.821343 | 9.995112 | 10 | |
| 35 | 0 | 9.173908 | 140 | 9.178799 | 142 | 0.821201 | 9.995108 | 0 | 25 |
| | 10 | 9.174047 | 139 | 9.178942 | 143 | 0.821058 | 9.995105 | 50 | |
| | 20 | 9.174187 | 140 | 9.179085 | 143 | 0.820915 | 9.995102 | 40 | |
| | 30 | 9.174326 | 139 | 9.179227 | 142 | 0.820773 | 9.995099 | 30 | |
| | 40 | 9.174465 | 139 | 9.179370 | 143 | 0.820630 | 9.995096 | 20 | |
| | 50 | 9.174605 | 140 | 9.179512 | 142 | 0.820488 | 9.995092 | 10 | |
| 36 | 0 | 9.174744 | 139 | 9.179655 | 143 | 0.820345 | 9.995089 | 0 | 24 |
| | 10 | 9.174883 | 139 | 9.179797 | 142 | 0.820203 | 9.995086 | 50 | |
| | 20 | 9.175022 | 139 | 9.179939 | 142 | 0.820061 | 9.995083 | 40 | |
| | 30 | 9.175161 | 139 | 9.180082 | 143 | 0.819918 | 9.995080 | 30 | |
| | 40 | 9.175300 | 139 | 9.180224 | 142 | 0.819776 | 9.995077 | 20 | |
| | 50 | 9.175439 | 139 | 9.180366 | 142 | 0.819634 | 9.995073 | 10 | |
| 37 | 0 | 9.175578 | 139 | 9.180508 | 142 | 0.819492 | 9.995070 | 0 | 23 |
| | 10 | 9.175717 | 139 | 9.180650 | 142 | 0.819350 | 9.995067 | 50 | |
| | 20 | 9.175856 | 139 | 9.180792 | 142 | 0.819208 | 9.995064 | 40 | |
| | 30 | 9.175995 | 139 | 9.180934 | 142 | 0.819066 | 9.995061 | 30 | |
| | 40 | 9.176134 | 139 | 9.181076 | 142 | 0.818924 | 9.995057 | 20 | |
| | 50 | 9.176273 | 138 | 9.181218 | 142 | 0.818782 | 9.995054 | 10 | |
| 38 | 0 | 9.176411 | 138 | 9.181360 | 142 | 0.818640 | 9.995051 | 0 | 22 |
| | 10 | 9.176550 | 139 | 9.181502 | 142 | 0.818498 | 9.995048 | 50 | |
| | 20 | 9.176688 | 138 | 9.181644 | 142 | 0.818356 | 9.995045 | 40 | |
| | 30 | 9.176827 | 139 | 9.181786 | 142 | 0.818214 | 9.995041 | 30 | |
| | 40 | 9.176966 | 139 | 9.181927 | 141 | 0.818073 | 9.995038 | 20 | |
| | 50 | 9.177104 | 138 | 9.182069 | 142 | 0.817931 | 9.995035 | 10 | |
| 39 | 0 | 9.177242 | 138 | 9.182211 | 142 | 0.817789 | 9.995032 | 0 | 21 |
| | 10 | 9.177381 | 139 | 9.182352 | 141 | 0.817648 | 9.995029 | 50 | |
| | 20 | 9.177519 | 138 | 9.182494 | 142 | 0.817506 | 9.995025 | 40 | |
| | 30 | 9.177657 | 138 | 9.182635 | 141 | 0.817365 | 9.995022 | 30 | |
| | 40 | 9.177796 | 139 | 9.182777 | 142 | 0.817223 | 9.995019 | 20 | |
| | 50 | 9.177934 | 138 | 9.182918 | 141 | 0.817082 | 9.995016 | 10 | |
| 40 | 0 | 9.178072 | 138 | 9.183059 | 141 | 0.816941 | 9.995013 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

142
1 14.2
2 28.4
3 42.6
4 56.8
5 71.0
6 85.2
7 99.4
8 113.6
9 127.8

141
1 14.1
2 28.2
3 42.3
4 56.4
5 70.5
6 84.6
7 98.7
8 112.8
9 126.9

140
1 14.0
2 28.0
3 42.0
4 56.0
5 70.0
6 84.0
7 98.0
8 112.0
9 126.0

139
1 13.9
2 27.8
3 41.7
4 55.6
5 69.5
6 83.4
7 97.3
8 111.2
9 125.1

138
1 13.8
2 27.6
3 41.4
4 55.2
5 69.0
6 82.8
7 96.6
8 110.4
9 124.2

| | | Sin | d. | Tang | d. c. | Cotg | Cos | | |
|---------|----|----------|-----|----------|-------|----------|----------|----|----|
| 40 | 0 | 9.178072 | | 9.183059 | | 0.816941 | 9.995013 | 0 | 20 |
| | 10 | 9.178210 | 138 | 9.183201 | 142 | 0.816799 | 9.995009 | 50 | |
| | 20 | 9.178348 | 138 | 9.183342 | 141 | 0.816658 | 9.995006 | 40 | |
| 142 | 30 | 9.178486 | 138 | 9.183483 | 141 | 0.816517 | 9.995003 | 30 | |
| 1 14.2 | 40 | 9.178624 | 138 | 9.183625 | 142 | 0.816375 | 9.995000 | 20 | |
| 2 28.4 | 50 | 9.178762 | 138 | 9.183766 | 141 | 0.816234 | 9.994997 | 10 | |
| 3 42.6 | | | | | | | | | |
| 4 56.8 | 41 | 0 | | 9.178900 | | 0.816093 | 9.994993 | 0 | 19 |
| 5 71.0 | | | | | | | | | |
| 6 85.2 | 10 | 9.179038 | 138 | 9.184048 | 141 | 0.815952 | 9.994990 | 50 | |
| 7 99.4 | 20 | 9.179176 | 138 | 9.184189 | 141 | 0.815811 | 9.994987 | 40 | |
| 8 113.6 | 30 | 9.179313 | 137 | 9.184330 | 141 | 0.815670 | 9.994984 | 30 | |
| 9 127.8 | 40 | 9.179451 | 138 | 9.184471 | 141 | 0.815529 | 9.994980 | 20 | |
| | 50 | 9.179589 | 137 | 9.184612 | 140 | 0.815388 | 9.994977 | 10 | |
| | | | | | | | | | |
| | 42 | 0 | | 9.179726 | | 0.815248 | 9.994974 | 0 | 18 |
| | | | | | | | | | |
| | 10 | 9.179864 | 138 | 9.184893 | 141 | 0.815107 | 9.994971 | 50 | |
| 141 | 20 | 9.180002 | 138 | 9.185034 | 141 | 0.814966 | 9.994968 | 40 | |
| 1 14.1 | 30 | 9.180139 | 137 | 9.185175 | 141 | 0.814825 | 9.994965 | 30 | |
| 2 28.2 | 40 | 9.180276 | 137 | 9.185315 | 140 | 0.814685 | 9.994961 | 20 | |
| 3 42.3 | 50 | 9.180414 | 137 | 9.185456 | 141 | 0.814544 | 9.994958 | 10 | |
| 4 56.4 | | | | | | | | | |
| 5 70.5 | 43 | 0 | | 9.180551 | | 0.814403 | 9.994955 | 0 | 17 |
| 6 84.6 | | | | | | | | | |
| 7 98.7 | 10 | 9.180689 | 137 | 9.185737 | 140 | 0.814263 | 9.994951 | 50 | |
| 8 112.8 | 20 | 9.180826 | 137 | 9.185878 | 141 | 0.814122 | 9.994948 | 40 | |
| 9 126.9 | 30 | 9.180963 | 137 | 9.186018 | 140 | 0.813982 | 9.994945 | 30 | |
| | 40 | 9.181100 | 137 | 9.186158 | 140 | 0.813842 | 9.994942 | 20 | |
| | 50 | 9.181237 | 137 | 9.186299 | 141 | 0.813701 | 9.994938 | 10 | |
| | | | | | | | | | |
| | 44 | 0 | | 9.181374 | | 0.813561 | 9.994935 | 0 | 16 |
| | | | | | | | | | |
| | 10 | 9.181511 | 137 | 9.186579 | 140 | 0.813421 | 9.994932 | 50 | |
| 140 | 20 | 9.181648 | 137 | 9.186720 | 141 | 0.813280 | 9.994929 | 40 | |
| 1 14.0 | 30 | 9.181785 | 137 | 9.186860 | 140 | 0.813140 | 9.994926 | 30 | |
| 2 28.0 | 40 | 9.181922 | 137 | 9.187000 | 140 | 0.813000 | 9.994922 | 20 | |
| 3 42.0 | 50 | 9.182059 | 137 | 9.187140 | 140 | 0.812860 | 9.994919 | 10 | |
| 4 56.0 | | | | | | | | | |
| 5 70.0 | 45 | 0 | | 9.182196 | | 0.812720 | 9.994916 | 0 | 15 |
| 6 84.0 | | | | | | | | | |
| 7 98.0 | 10 | 9.182333 | 137 | 9.187420 | 140 | 0.812580 | 9.994913 | 50 | |
| 8 112.0 | 20 | 9.182469 | 136 | 9.187560 | 140 | 0.812440 | 9.994909 | 40 | |
| 9 126.0 | 30 | 9.182606 | 137 | 9.187700 | 140 | 0.812300 | 9.994906 | 30 | |
| | 40 | 9.182743 | 137 | 9.187840 | 140 | 0.812160 | 9.994903 | 20 | |
| | 50 | 9.182879 | 136 | 9.187980 | 140 | 0.812020 | 9.994900 | 10 | |
| | | | | | | | | | |
| | 46 | 0 | | 9.183016 | | 0.811880 | 9.994896 | 0 | 14 |
| | | | | | | | | | |
| | 10 | 9.183152 | 136 | 9.188259 | 139 | 0.811741 | 9.994893 | 50 | |
| 139 | 20 | 9.183289 | 137 | 9.188399 | 140 | 0.811601 | 9.994890 | 40 | |
| 1 13.9 | 30 | 9.183425 | 136 | 9.188539 | 140 | 0.811461 | 9.994887 | 30 | |
| 2 27.8 | 40 | 9.183562 | 137 | 9.188678 | 139 | 0.811322 | 9.994883 | 20 | |
| 3 41.7 | 50 | 9.183698 | 136 | 9.188818 | 140 | 0.811182 | 9.994880 | 10 | |
| 4 55.6 | | | | | | | | | |
| 5 69.5 | 47 | 0 | | 9.183834 | | 0.811042 | 9.994877 | 0 | 13 |
| 6 83.4 | | | | | | | | | |
| 7 97.3 | 10 | 9.183971 | 137 | 9.189097 | 139 | 0.810903 | 9.994874 | 50 | |
| 8 111.2 | 20 | 9.184107 | 136 | 9.189236 | 139 | 0.810764 | 9.994870 | 40 | |
| 9 125.1 | 30 | 9.184243 | 136 | 9.189376 | 140 | 0.810624 | 9.994867 | 30 | |
| | 40 | 9.184379 | 136 | 9.189515 | 139 | 0.810485 | 9.994864 | 20 | |
| | 50 | 9.184515 | 136 | 9.189655 | 140 | 0.810345 | 9.994861 | 10 | |
| | | | | | | | | | |
| | 48 | 0 | | 9.184651 | | 0.810206 | 9.994857 | 0 | 12 |
| | | | | | | | | | |
| | 10 | 9.184787 | 136 | 9.189794 | 139 | 0.810067 | 9.994854 | 50 | |
| 138 | 20 | 9.184923 | 136 | 9.190007 | 139 | 0.809928 | 9.994851 | 40 | |
| 1 13.8 | 30 | 9.185059 | 136 | 9.190212 | 140 | 0.809788 | 9.994848 | 30 | |
| 2 27.6 | 40 | 9.185195 | 136 | 9.190351 | 139 | 0.809649 | 9.994844 | 20 | |
| 3 41.4 | 50 | 9.185331 | 136 | 9.190490 | 139 | 0.809510 | 9.994841 | 10 | |
| 4 55.2 | | | | | | | | | |
| 5 69.0 | 49 | 0 | | 9.185466 | | 0.809371 | 9.994838 | 0 | 11 |
| 6 82.8 | | | | | | | | | |
| 7 96.6 | 10 | 9.185602 | 135 | 9.190768 | 139 | 0.809232 | 9.994834 | 50 | |
| 8 110.4 | 20 | 9.185738 | 136 | 9.190907 | 139 | 0.809093 | 9.994831 | 40 | |
| 9 124.2 | 30 | 9.185874 | 136 | 9.191046 | 139 | 0.808954 | 9.994828 | 30 | |
| | 40 | 9.186009 | 135 | 9.191184 | 138 | 0.808815 | 9.994825 | 20 | |
| | 50 | 9.186145 | 136 | 9.191323 | 139 | 0.808676 | 9.994821 | 10 | |
| | | | | | | | | | |
| | 50 | 9.186280 | 135 | 9.191462 | 139 | 0.808537 | 9.994818 | 0 | 10 |
| | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | " | " |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 50 | 0 | 9.186280 | 136 | 9.191462 | 139 | 0.808538 | 9.994818 | 0 | 10 |
| | 10 | 9.186416 | 135 | 9.191601 | 138 | 0.808399 | 9.994815 | 50 | |
| | 20 | 9.186551 | 135 | 9.191739 | 138 | 0.808261 | 9.994812 | 40 | |
| | 30 | 9.186686 | 135 | 9.191878 | 139 | 0.808122 | 9.994808 | 30 | |
| | 40 | 9.186822 | 136 | 9.192017 | 139 | 0.807983 | 9.994805 | 20 | |
| | 50 | 9.186957 | 135 | 9.192155 | 138 | 0.807845 | 9.994802 | 10 | |
| 51 | 0 | 9.187092 | 135 | 9.192294 | 139 | 0.807706 | 9.994798 | 0 | 9 |
| | 10 | 9.187228 | 136 | 9.192432 | 138 | 0.807568 | 9.994795 | 50 | |
| | 20 | 9.187363 | 135 | 9.192571 | 139 | 0.807429 | 9.994792 | 40 | |
| | 30 | 9.187498 | 135 | 9.192709 | 138 | 0.807291 | 9.994789 | 30 | |
| | 40 | 9.187633 | 135 | 9.192848 | 139 | 0.807152 | 9.994785 | 20 | |
| | 50 | 9.187768 | 135 | 9.192986 | 138 | 0.807014 | 9.994782 | 10 | |
| 52 | 0 | 9.187903 | 135 | 9.193124 | 138 | 0.806876 | 9.994779 | 0 | 8 |
| | 10 | 9.188038 | 135 | 9.193262 | 139 | 0.806738 | 9.994776 | 50 | |
| | 20 | 9.188173 | 135 | 9.193401 | 138 | 0.806599 | 9.994772 | 40 | |
| | 30 | 9.188308 | 135 | 9.193539 | 138 | 0.806461 | 9.994769 | 30 | |
| | 40 | 9.188442 | 134 | 9.193677 | 138 | 0.806323 | 9.994766 | 20 | |
| | 50 | 9.188577 | 135 | 9.193815 | 138 | 0.806185 | 9.994762 | 10 | |
| 53 | 0 | 9.188712 | 135 | 9.193953 | 138 | 0.806047 | 9.994759 | 0 | 7 |
| | 10 | 9.188847 | 135 | 9.194091 | 138 | 0.805909 | 9.994756 | 50 | |
| | 20 | 9.188981 | 134 | 9.194229 | 138 | 0.805771 | 9.994752 | 40 | |
| | 30 | 9.189116 | 135 | 9.194367 | 138 | 0.805633 | 9.994749 | 30 | |
| | 40 | 9.189250 | 134 | 9.194505 | 137 | 0.805495 | 9.994746 | 20 | |
| | 50 | 9.189385 | 135 | 9.194642 | 138 | 0.805358 | 9.994743 | 10 | |
| 54 | 0 | 9.189519 | 135 | 9.194780 | 138 | 0.805220 | 9.994739 | 0 | 6 |
| | 10 | 9.189654 | 134 | 9.194918 | 138 | 0.805082 | 9.994736 | 50 | |
| | 20 | 9.189788 | 134 | 9.195056 | 138 | 0.804944 | 9.994733 | 40 | |
| | 30 | 9.189923 | 135 | 9.195193 | 137 | 0.804807 | 9.994729 | 30 | |
| | 40 | 9.190057 | 134 | 9.195331 | 137 | 0.804669 | 9.994726 | 20 | |
| | 50 | 9.190191 | 134 | 9.195468 | 138 | 0.804532 | 9.994723 | 10 | |
| 55 | 0 | 9.190325 | 135 | 9.195606 | 137 | 0.804394 | 9.994720 | 0 | 5 |
| | 10 | 9.190460 | 134 | 9.195743 | 137 | 0.804257 | 9.994716 | 50 | |
| | 20 | 9.190594 | 134 | 9.195881 | 138 | 0.804119 | 9.994713 | 40 | |
| | 30 | 9.190728 | 134 | 9.196018 | 137 | 0.803982 | 9.994710 | 30 | |
| | 40 | 9.190862 | 134 | 9.196156 | 138 | 0.803844 | 9.994706 | 20 | |
| | 50 | 9.190996 | 134 | 9.196293 | 137 | 0.803706 | 9.994703 | 10 | |
| 56 | 0 | 9.191130 | 134 | 9.196430 | 137 | 0.803568 | 9.994700 | 0 | 4 |
| | 10 | 9.191264 | 134 | 9.196567 | 137 | 0.803430 | 9.994697 | 50 | |
| | 20 | 9.191398 | 134 | 9.196705 | 138 | 0.803292 | 9.994694 | 40 | |
| | 30 | 9.191532 | 134 | 9.196842 | 137 | 0.803154 | 9.994691 | 30 | |
| | 40 | 9.191665 | 133 | 9.196979 | 137 | 0.803016 | 9.994688 | 20 | |
| | 50 | 9.191799 | 134 | 9.197116 | 137 | 0.802878 | 9.994685 | 10 | |
| 57 | 0 | 9.191933 | 134 | 9.197253 | 137 | 0.802740 | 9.994682 | 0 | 3 |
| | 10 | 9.192066 | 133 | 9.197390 | 137 | 0.802602 | 9.994679 | 50 | |
| | 20 | 9.192200 | 134 | 9.197527 | 137 | 0.802464 | 9.994676 | 40 | |
| | 30 | 9.192334 | 134 | 9.197664 | 137 | 0.802326 | 9.994673 | 30 | |
| | 40 | 9.192467 | 133 | 9.197801 | 137 | 0.802188 | 9.994670 | 20 | |
| | 50 | 9.192601 | 134 | 9.197938 | 137 | 0.802050 | 9.994667 | 10 | |
| 58 | 0 | 9.192734 | 133 | 9.198074 | 136 | 0.801912 | 9.994664 | 0 | 2 |
| | 10 | 9.192868 | 134 | 9.198211 | 137 | 0.801774 | 9.994661 | 50 | |
| | 20 | 9.193001 | 133 | 9.198348 | 137 | 0.801636 | 9.994658 | 40 | |
| | 30 | 9.193134 | 133 | 9.198484 | 136 | 0.801498 | 9.994655 | 30 | |
| | 40 | 9.193268 | 134 | 9.198621 | 137 | 0.801360 | 9.994652 | 20 | |
| | 50 | 9.193401 | 133 | 9.198758 | 137 | 0.801222 | 9.994649 | 10 | |
| 59 | 0 | 9.193534 | 133 | 9.198894 | 136 | 0.801084 | 9.994646 | 0 | 1 |
| | 10 | 9.193667 | 133 | 9.199031 | 137 | 0.800946 | 9.994643 | 50 | |
| | 20 | 9.193800 | 133 | 9.199167 | 136 | 0.800808 | 9.994640 | 40 | |
| | 30 | 9.193933 | 133 | 9.199304 | 137 | 0.800670 | 9.994637 | 30 | |
| | 40 | 9.194066 | 133 | 9.199440 | 136 | 0.800532 | 9.994634 | 20 | |
| | 50 | 9.194199 | 133 | 9.199576 | 136 | 0.800394 | 9.994631 | 10 | |
| 60 | 0 | 9.194332 | 133 | 9.199713 | 137 | 0.800256 | 9.994628 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

137
1 13.7
2 27.4
3 41.1
4 54.8
5 68.5
6 82.2
7 95.9
8 109.6
9 123.3

136
1 13.6
2 27.2
3 40.8
4 54.4
5 68.0
6 81.6
7 95.2
8 108.8
9 122.4

135
1 13.5
2 27.0
3 40.5
4 54.0
5 67.5
6 81.0
7 94.5
8 108.0
9 121.5

134
1 13.4
2 26.8
3 40.2
4 53.6
5 67.0
6 80.4
7 93.8
8 107.2
9 120.6

133
1 13.3
2 26.6
3 39.9
4 53.2
5 66.5
6 79.8
7 93.1
8 106.4
9 119.7

136
1 13.6
2 27.2
3 40.8
4 54.4
5 68.0
6 81.6
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135
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2 27.0
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5 67.5
6 81.0
7 94.5
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134
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133
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6 79.8
7 93.1
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132
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4 52.8
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6 79.2
7 92.4
8 105.6
9 118.8

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|------|----------|----------|----|----|
| 0 | 0 | 9.194332 | 133 | 9.199713 | 136 | 0.800287 | 9.994620 | 0 | 60 |
| | 10 | 9.194465 | 133 | 9.199849 | 136 | 0.800151 | 9.994617 | 50 | |
| | 20 | 9.194598 | 133 | 9.199985 | 136 | 0.800015 | 9.994613 | 40 | |
| | 30 | 9.194731 | 133 | 9.200121 | 136 | 0.799879 | 9.994610 | 30 | |
| | 40 | 9.194864 | 133 | 9.200257 | 136 | 0.799743 | 9.994607 | 20 | |
| | 50 | 9.194997 | 133 | 9.200393 | 136 | 0.799607 | 9.994603 | 10 | |
| 1 | 0 | 9.195129 | 132 | 9.200529 | 136 | 0.799471 | 9.994600 | 0 | 59 |
| | 10 | 9.195262 | 133 | 9.200665 | 136 | 0.799335 | 9.994597 | 50 | |
| | 20 | 9.195395 | 133 | 9.200801 | 136 | 0.799199 | 9.994593 | 40 | |
| | 30 | 9.195527 | 132 | 9.200937 | 136 | 0.799063 | 9.994590 | 30 | |
| | 40 | 9.195660 | 133 | 9.201073 | 136 | 0.798927 | 9.994587 | 20 | |
| | 50 | 9.195792 | 132 | 9.201209 | 136 | 0.798791 | 9.994583 | 10 | |
| 2 | 0 | 9.195925 | 133 | 9.201345 | 136 | 0.798655 | 9.994580 | 0 | 58 |
| | 10 | 9.196057 | 132 | 9.201481 | 136 | 0.798519 | 9.994576 | 50 | |
| | 20 | 9.196189 | 132 | 9.201616 | 135 | 0.798384 | 9.994573 | 40 | |
| | 30 | 9.196322 | 133 | 9.201752 | 136 | 0.798248 | 9.994570 | 30 | |
| | 40 | 9.196454 | 132 | 9.201888 | 136 | 0.798112 | 9.994566 | 20 | |
| | 50 | 9.196586 | 132 | 9.202023 | 135 | 0.797977 | 9.994563 | 10 | |
| 3 | 0 | 9.196719 | 133 | 9.202159 | 136 | 0.797841 | 9.994560 | 0 | 57 |
| | 10 | 9.196851 | 132 | 9.202294 | 135 | 0.797706 | 9.994556 | 50 | |
| | 20 | 9.196983 | 132 | 9.202430 | 136 | 0.797570 | 9.994553 | 40 | |
| | 30 | 9.197115 | 132 | 9.202565 | 135 | 0.797435 | 9.994550 | 30 | |
| | 40 | 9.197247 | 132 | 9.202701 | 136 | 0.797299 | 9.994546 | 20 | |
| | 50 | 9.197379 | 132 | 9.202836 | 135 | 0.797164 | 9.994543 | 10 | |
| 4 | 0 | 9.197511 | 132 | 9.202971 | 135 | 0.797029 | 9.994540 | 0 | 56 |
| | 10 | 9.197643 | 132 | 9.203107 | 136 | 0.796893 | 9.994536 | 50 | |
| | 20 | 9.197775 | 132 | 9.203242 | 135 | 0.796758 | 9.994533 | 40 | |
| | 30 | 9.197907 | 132 | 9.203377 | 135 | 0.796623 | 9.994530 | 30 | |
| | 40 | 9.198038 | 131 | 9.203512 | 135 | 0.796488 | 9.994526 | 20 | |
| | 50 | 9.198170 | 132 | 9.203647 | 135 | 0.796353 | 9.994523 | 10 | |
| 5 | 0 | 9.198302 | 132 | 9.203782 | 136 | 0.796218 | 9.994519 | 0 | 55 |
| | 10 | 9.198434 | 131 | 9.203918 | 135 | 0.796082 | 9.994516 | 50 | |
| | 20 | 9.198565 | 132 | 9.204053 | 135 | 0.795947 | 9.994513 | 40 | |
| | 30 | 9.198697 | 132 | 9.204188 | 135 | 0.795812 | 9.994509 | 30 | |
| | 40 | 9.198828 | 131 | 9.204322 | 134 | 0.795678 | 9.994506 | 20 | |
| | 50 | 9.198960 | 132 | 9.204457 | 135 | 0.795543 | 9.994503 | 10 | |
| 6 | 0 | 9.199091 | 131 | 9.204592 | 135 | 0.795408 | 9.994499 | 0 | 54 |
| | 10 | 9.199223 | 132 | 9.204727 | 135 | 0.795273 | 9.994496 | 50 | |
| | 20 | 9.199354 | 131 | 9.204862 | 135 | 0.795138 | 9.994492 | 40 | |
| | 30 | 9.199486 | 132 | 9.204996 | 134 | 0.795004 | 9.994489 | 30 | |
| | 40 | 9.199617 | 131 | 9.205131 | 135 | 0.794869 | 9.994486 | 20 | |
| | 50 | 9.199748 | 131 | 9.205266 | 135 | 0.794734 | 9.994482 | 10 | |
| 7 | 0 | 9.199879 | 131 | 9.205400 | 134 | 0.794600 | 9.994479 | 0 | 53 |
| | 10 | 9.200011 | 132 | 9.205535 | 135 | 0.794465 | 9.994476 | 50 | |
| | 20 | 9.200142 | 131 | 9.205669 | 134 | 0.794331 | 9.994472 | 40 | |
| | 30 | 9.200273 | 131 | 9.205804 | 135 | 0.794196 | 9.994469 | 30 | |
| | 40 | 9.200404 | 131 | 9.205938 | 134 | 0.794062 | 9.994465 | 20 | |
| | 50 | 9.200535 | 131 | 9.206073 | 135 | 0.793927 | 9.994462 | 10 | |
| 8 | 0 | 9.200666 | 131 | 9.206207 | 134 | 0.793793 | 9.994459 | 0 | 52 |
| | 10 | 9.200797 | 131 | 9.206342 | 135 | 0.793658 | 9.994455 | 50 | |
| | 20 | 9.200928 | 131 | 9.206476 | 134 | 0.793524 | 9.994452 | 40 | |
| | 30 | 9.201059 | 131 | 9.206610 | 134 | 0.793390 | 9.994448 | 30 | |
| | 40 | 9.201189 | 130 | 9.206744 | 134 | 0.793256 | 9.994445 | 20 | |
| | 50 | 9.201320 | 131 | 9.206878 | 134 | 0.793122 | 9.994442 | 10 | |
| 9 | 0 | 9.201451 | 131 | 9.207013 | 135 | 0.792987 | 9.994438 | 0 | 51 |
| | 10 | 9.201582 | 131 | 9.207147 | 134 | 0.792853 | 9.994435 | 50 | |
| | 20 | 9.201712 | 130 | 9.207281 | 134 | 0.792719 | 9.994432 | 40 | |
| | 30 | 9.201843 | 131 | 9.207415 | 134 | 0.792585 | 9.994428 | 30 | |
| | 40 | 9.201973 | 130 | 9.207549 | 134 | 0.792451 | 9.994425 | 20 | |
| | 50 | 9.202104 | 131 | 9.207683 | 134 | 0.792317 | 9.994421 | 10 | |
| 10 | 0 | 9.202234 | 130 | 9.207817 | 134 | 0.792183 | 9.994418 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 10 | 0 | 9.202234 | I31 | 9.207817 | I33 | 0.792183 | 9.994418 | 0 | 50 |
| | 10 | 9.202365 | I30 | 9.207950 | I34 | 0.792050 | 9.994415 | 50 | |
| | 20 | 9.202495 | I31 | 9.208084 | I34 | 0.791916 | 9.994411 | 40 | |
| | 30 | 9.202626 | I30 | 9.208218 | I34 | 0.791782 | 9.994408 | 30 | |
| | 40 | 9.202756 | I30 | 9.208352 | I33 | 0.791648 | 9.994404 | 20 | |
| | 50 | 9.202886 | I31 | 9.208485 | I34 | 0.791515 | 9.994401 | 10 | |
| 11 | 0 | 9.203017 | I30 | 9.208619 | I34 | 0.791381 | 9.994398 | 0 | 49 |
| | 10 | 9.203147 | I30 | 9.208753 | I33 | 0.791247 | 9.994394 | 50 | |
| | 20 | 9.203277 | I30 | 9.208886 | I34 | 0.791114 | 9.994391 | 40 | |
| | 30 | 9.203407 | I30 | 9.209020 | I33 | 0.790980 | 9.994387 | 30 | |
| | 40 | 9.203537 | I30 | 9.209153 | I34 | 0.790847 | 9.994384 | 20 | |
| | 50 | 9.203667 | I30 | 9.209287 | I33 | 0.790713 | 9.994381 | 10 | |
| 12 | 0 | 9.203797 | I30 | 9.209420 | I34 | 0.790580 | 9.994377 | 0 | 48 |
| | 10 | 9.203927 | I30 | 9.209554 | I33 | 0.790446 | 9.994374 | 50 | |
| | 20 | 9.204057 | I30 | 9.209687 | I33 | 0.790313 | 9.994370 | 40 | |
| | 30 | 9.204187 | I30 | 9.209820 | I34 | 0.790180 | 9.994367 | 30 | |
| | 40 | 9.204317 | I30 | 9.209954 | I33 | 0.790046 | 9.994363 | 20 | |
| | 50 | 9.204447 | I30 | 9.210087 | I33 | 0.789913 | 9.994360 | 10 | |
| 13 | 0 | 9.204577 | I29 | 9.210220 | I33 | 0.789780 | 9.994357 | 0 | 47 |
| | 10 | 9.204706 | I30 | 9.210353 | I33 | 0.789647 | 9.994353 | 50 | |
| | 20 | 9.204836 | I30 | 9.210486 | I33 | 0.789514 | 9.994350 | 40 | |
| | 30 | 9.204966 | I29 | 9.210619 | I33 | 0.789381 | 9.994346 | 30 | |
| | 40 | 9.205095 | I30 | 9.210752 | I33 | 0.789248 | 9.994343 | 20 | |
| | 50 | 9.205225 | I29 | 9.210885 | I33 | 0.789115 | 9.994340 | 10 | |
| 14 | 0 | 9.205354 | I30 | 9.211018 | I33 | 0.788982 | 9.994336 | 0 | 46 |
| | 10 | 9.205484 | I29 | 9.211151 | I33 | 0.788849 | 9.994333 | 50 | |
| | 20 | 9.205613 | I30 | 9.211284 | I33 | 0.788716 | 9.994329 | 40 | |
| | 30 | 9.205743 | I29 | 9.211417 | I33 | 0.788583 | 9.994326 | 30 | |
| | 40 | 9.205872 | I30 | 9.211550 | I33 | 0.788450 | 9.994322 | 20 | |
| | 50 | 9.206002 | I29 | 9.211683 | I32 | 0.788317 | 9.994319 | 10 | |
| 15 | 0 | 9.206131 | I29 | 9.211815 | I33 | 0.788185 | 9.994316 | 0 | 45 |
| | 10 | 9.206260 | I29 | 9.211948 | I33 | 0.788052 | 9.994312 | 50 | |
| | 20 | 9.206389 | I30 | 9.212081 | I32 | 0.787919 | 9.994309 | 40 | |
| | 30 | 9.206519 | I29 | 9.212213 | I33 | 0.787787 | 9.994305 | 30 | |
| | 40 | 9.206648 | I29 | 9.212346 | I33 | 0.787654 | 9.994302 | 20 | |
| | 50 | 9.206777 | I29 | 9.212478 | I32 | 0.787522 | 9.994298 | 10 | |
| 16 | 0 | 9.206906 | I29 | 9.212611 | I32 | 0.787389 | 9.994295 | 0 | 44 |
| | 10 | 9.207035 | I29 | 9.212743 | I33 | 0.787257 | 9.994292 | 50 | |
| | 20 | 9.207164 | I29 | 9.212876 | I32 | 0.787124 | 9.994288 | 40 | |
| | 30 | 9.207293 | I29 | 9.213008 | I32 | 0.786992 | 9.994285 | 30 | |
| | 40 | 9.207422 | I29 | 9.213141 | I33 | 0.786859 | 9.994281 | 20 | |
| | 50 | 9.207551 | I28 | 9.213273 | I32 | 0.786727 | 9.994278 | 10 | |
| 17 | 0 | 9.207679 | I29 | 9.213405 | I32 | 0.786595 | 9.994274 | 0 | 43 |
| | 10 | 9.207808 | I29 | 9.213537 | I32 | 0.786463 | 9.994271 | 50 | |
| | 20 | 9.207937 | I29 | 9.213670 | I32 | 0.786330 | 9.994267 | 40 | |
| | 30 | 9.208066 | I28 | 9.213802 | I32 | 0.786198 | 9.994264 | 30 | |
| | 40 | 9.208194 | I28 | 9.213934 | I32 | 0.786066 | 9.994261 | 20 | |
| | 50 | 9.208323 | I29 | 9.214066 | I32 | 0.785934 | 9.994257 | 10 | |
| 18 | 0 | 9.208452 | I28 | 9.214198 | I32 | 0.785802 | 9.994254 | 0 | 42 |
| | 10 | 9.208580 | I29 | 9.214330 | I32 | 0.785670 | 9.994250 | 50 | |
| | 20 | 9.208709 | I28 | 9.214462 | I32 | 0.785538 | 9.994247 | 40 | |
| | 30 | 9.208837 | I28 | 9.214594 | I32 | 0.785406 | 9.994243 | 30 | |
| | 40 | 9.208966 | I29 | 9.214726 | I32 | 0.785274 | 9.994240 | 20 | |
| | 50 | 9.209094 | I28 | 9.214858 | I32 | 0.785142 | 9.994236 | 10 | |
| 19 | 0 | 9.209222 | I28 | 9.214989 | I31 | 0.785011 | 9.994233 | 0 | 41 |
| | 10 | 9.209351 | I29 | 9.215121 | I32 | 0.784879 | 9.994230 | 50 | |
| | 20 | 9.209479 | I28 | 9.215253 | I32 | 0.784747 | 9.994226 | 40 | |
| | 30 | 9.209607 | I28 | 9.215385 | I32 | 0.784615 | 9.994223 | 30 | |
| | 40 | 9.209735 | I28 | 9.215516 | I31 | 0.784484 | 9.994219 | 20 | |
| | 50 | 9.209864 | I29 | 9.215648 | I32 | 0.784352 | 9.994216 | 10 | |
| 20 | 0 | 9.209992 | I28 | 9.215780 | I32 | 0.784220 | 9.994212 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

I32
1 13.2
2 26.4
3 39.6
4 52.8
5 66.0
6 79.2
7 92.4
8 105.6
9 118.8

I31
1 13.1
2 26.2
3 39.3
4 52.4
5 65.5
6 78.6
7 91.7
8 104.8
9 117.9

I30
1 13.0
2 26.0
3 39.0
4 52.0
5 65.0
6 78.0
7 91.0
8 104.0
9 117.0

I29
1 12.9
2 25.8
3 38.7
4 51.6
5 64.5
6 77.4
7 90.3
8 103.2
9 116.1

I28
1 12.8
2 25.6
3 38.4
4 51.2
5 64.0
6 76.8
7 89.6
8 102.4
9 115.2

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 30 | 0 | 9.217609 | 126 | 9.223607 | 129 | 0.776393 | 9.994003 | 0 | 30 |
| | 10 | 9.217735 | 126 | 9.223736 | 129 | 0.776264 | 9.993999 | 50 | |
| | 20 | 9.217861 | 126 | 9.223865 | 129 | 0.776135 | 9.993996 | 40 | |
| | 30 | 9.217987 | 125 | 9.223994 | 129 | 0.776006 | 9.993992 | 30 | |
| | 40 | 9.218112 | 126 | 9.224124 | 130 | 0.775876 | 9.993989 | 20 | |
| | 50 | 9.218238 | 125 | 9.224253 | 129 | 0.775747 | 9.993985 | 10 | |
| 31 | 0 | 9.218363 | 126 | 9.224382 | 129 | 0.775618 | 9.993982 | 0 | 31 |
| | 10 | 9.218489 | 126 | 9.224511 | 129 | 0.775489 | 9.993978 | 50 | |
| | 20 | 9.218615 | 125 | 9.224640 | 129 | 0.775360 | 9.993974 | 40 | |
| | 30 | 9.218740 | 126 | 9.224769 | 129 | 0.775231 | 9.993971 | 30 | |
| | 40 | 9.218866 | 125 | 9.224898 | 129 | 0.775102 | 9.993967 | 20 | |
| | 50 | 9.218991 | 125 | 9.225027 | 129 | 0.774973 | 9.993964 | 10 | |
| 32 | 0 | 9.219116 | 126 | 9.225156 | 129 | 0.774844 | 9.993960 | 0 | 32 |
| | 10 | 9.219242 | 125 | 9.225285 | 129 | 0.774715 | 9.993957 | 50 | |
| | 20 | 9.219367 | 125 | 9.225414 | 129 | 0.774586 | 9.993953 | 40 | |
| | 30 | 9.219492 | 126 | 9.225543 | 129 | 0.774457 | 9.993950 | 30 | |
| | 40 | 9.219618 | 125 | 9.225671 | 128 | 0.774329 | 9.993946 | 20 | |
| | 50 | 9.219743 | 125 | 9.225800 | 129 | 0.774200 | 9.993943 | 10 | |
| 33 | 0 | 9.219868 | 125 | 9.225929 | 129 | 0.774071 | 9.993939 | 0 | 33 |
| | 10 | 9.219993 | 125 | 9.226058 | 129 | 0.773942 | 9.993936 | 50 | |
| | 20 | 9.220118 | 125 | 9.226186 | 128 | 0.773814 | 9.993932 | 40 | |
| | 30 | 9.220243 | 125 | 9.226315 | 129 | 0.773685 | 9.993928 | 30 | |
| | 40 | 9.220368 | 125 | 9.226443 | 128 | 0.773557 | 9.993925 | 20 | |
| | 50 | 9.220493 | 125 | 9.226572 | 129 | 0.773428 | 9.993921 | 10 | |
| 34 | 0 | 9.220618 | 125 | 9.226700 | 128 | 0.773300 | 9.993918 | 0 | 34 |
| | 10 | 9.220743 | 125 | 9.226829 | 129 | 0.773171 | 9.993914 | 50 | |
| | 20 | 9.220868 | 125 | 9.226957 | 128 | 0.773043 | 9.993911 | 40 | |
| | 30 | 9.220993 | 125 | 9.227086 | 129 | 0.772914 | 9.993907 | 30 | |
| | 40 | 9.221118 | 125 | 9.227214 | 128 | 0.772786 | 9.993904 | 20 | |
| | 50 | 9.221242 | 124 | 9.227342 | 128 | 0.772658 | 9.993900 | 10 | |
| 35 | 0 | 9.221367 | 125 | 9.227471 | 129 | 0.772529 | 9.993897 | 0 | 35 |
| | 10 | 9.221492 | 125 | 9.227599 | 128 | 0.772401 | 9.993893 | 50 | |
| | 20 | 9.221616 | 124 | 9.227727 | 128 | 0.772273 | 9.993889 | 40 | |
| | 30 | 9.221741 | 125 | 9.227855 | 128 | 0.772145 | 9.993886 | 30 | |
| | 40 | 9.221866 | 125 | 9.227983 | 128 | 0.772017 | 9.993882 | 20 | |
| | 50 | 9.221990 | 124 | 9.228111 | 128 | 0.771889 | 9.993879 | 10 | |
| 36 | 0 | 9.222115 | 125 | 9.228239 | 128 | 0.771761 | 9.993875 | 0 | 36 |
| | 10 | 9.222239 | 124 | 9.228368 | 129 | 0.771632 | 9.993872 | 50 | |
| | 20 | 9.222364 | 125 | 9.228496 | 128 | 0.771504 | 9.993868 | 40 | |
| | 30 | 9.222488 | 124 | 9.228623 | 127 | 0.771377 | 9.993864 | 30 | |
| | 40 | 9.222612 | 124 | 9.228751 | 128 | 0.771249 | 9.993861 | 20 | |
| | 50 | 9.222737 | 125 | 9.228879 | 128 | 0.771121 | 9.993857 | 10 | |
| 37 | 0 | 9.222861 | 124 | 9.229007 | 128 | 0.770993 | 9.993854 | 0 | 37 |
| | 10 | 9.222985 | 124 | 9.229135 | 128 | 0.770865 | 9.993850 | 50 | |
| | 20 | 9.223109 | 124 | 9.229263 | 128 | 0.770737 | 9.993847 | 40 | |
| | 30 | 9.223234 | 125 | 9.229390 | 127 | 0.770610 | 9.993843 | 30 | |
| | 40 | 9.223358 | 124 | 9.229518 | 128 | 0.770482 | 9.993840 | 20 | |
| | 50 | 9.223482 | 124 | 9.229646 | 128 | 0.770354 | 9.993836 | 10 | |
| 38 | 0 | 9.223606 | 124 | 9.229773 | 127 | 0.770227 | 9.993832 | 0 | 38 |
| | 10 | 9.223730 | 124 | 9.229901 | 128 | 0.770099 | 9.993829 | 50 | |
| | 20 | 9.223854 | 124 | 9.230029 | 128 | 0.769971 | 9.993825 | 40 | |
| | 30 | 9.223978 | 124 | 9.230156 | 127 | 0.769844 | 9.993822 | 30 | |
| | 40 | 9.224102 | 124 | 9.230284 | 128 | 0.769716 | 9.993818 | 20 | |
| | 50 | 9.224226 | 124 | 9.230411 | 127 | 0.769589 | 9.993814 | 10 | |
| 39 | 0 | 9.224349 | 123 | 9.230539 | 128 | 0.769461 | 9.993811 | 0 | 39 |
| | 10 | 9.224473 | 124 | 9.230666 | 127 | 0.769334 | 9.993807 | 50 | |
| | 20 | 9.224597 | 124 | 9.230793 | 127 | 0.769207 | 9.993804 | 40 | |
| | 30 | 9.224721 | 124 | 9.230921 | 128 | 0.769079 | 9.993800 | 30 | |
| | 40 | 9.224845 | 124 | 9.231048 | 127 | 0.768952 | 9.993797 | 20 | |
| | 50 | 9.224968 | 123 | 9.231175 | 127 | 0.768825 | 9.993793 | 10 | |
| 40 | 0 | 9.225092 | 124 | 9.231302 | 127 | 0.768698 | 9.993789 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

127

12.7

25.4

38.1

50.8

63.5

76.2

88.9

101.6

114.3

126

12.6

25.2

37.8

50.4

63.0

75.6

88.2

100.8

113.4

125

12.5

25.0

37.5

50.0

62.5

75.0

87.5

100.0

112.5

124

12.4

24.8

37.2

49.6

62.0

74.4

86.8

99.2

111.6

123

12.3

24.6

36.9

49.2

61.5

73.8

86.1

98.4

110.7

128
1 12.8
2 25.6
3 38.4
4 51.2
5 64.0
6 76.8
7 89.6
8 102.4
9 115.2

127
1 12.7
2 25.4
3 38.1
4 50.8
5 63.5
6 76.2
7 88.9
8 101.6
9 114.3

126
1 12.6
2 25.2
3 37.8
4 50.4
5 63.0
6 75.6
7 88.2
8 100.8
9 113.4

125
1 12.5
2 25.0
3 37.5
4 50.0
5 62.5
6 75.0
7 87.5
8 100.0
9 112.5

124
1 12.4
2 24.8
3 37.2
4 49.6
5 62.0
6 74.4
7 86.8
8 99.2
9 111.6

| | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 40 | 0 | 9.225092 | 123 | 9.231302 | 128 | 0.768698 | 9.993789 | 0 | 20 |
| | 10 | 9.225215 | 123 | 9.231430 | 127 | 0.768570 | 9.993786 | 50 | |
| | 20 | 9.225339 | 124 | 9.231557 | 127 | 0.768443 | 9.993782 | 40 | |
| | 30 | 9.225462 | 123 | 9.231684 | 127 | 0.768316 | 9.993779 | 30 | |
| | 40 | 9.225586 | 124 | 9.231811 | 127 | 0.768189 | 9.993775 | 20 | |
| | 50 | 9.225709 | 123 | 9.231938 | 127 | 0.768062 | 9.993771 | 10 | |
| | | | 124 | | | | | | |
| 41 | 0 | 9.225833 | 123 | 9.232065 | 127 | 0.767935 | 9.993768 | 0 | 19 |
| | 10 | 9.225956 | 123 | 9.232192 | 127 | 0.767808 | 9.993764 | 50 | |
| | 20 | 9.226080 | 124 | 9.232319 | 127 | 0.767681 | 9.993761 | 40 | |
| | 30 | 9.226203 | 123 | 9.232446 | 127 | 0.767554 | 9.993757 | 30 | |
| | 40 | 9.226326 | 123 | 9.232573 | 126 | 0.767427 | 9.993753 | 20 | |
| | 50 | 9.226449 | 123 | 9.232699 | 127 | 0.767301 | 9.993750 | 10 | |
| | | | 124 | | | | | | |
| 42 | 0 | 9.226573 | 123 | 9.232826 | 127 | 0.767174 | 9.993746 | 0 | 18 |
| | 10 | 9.226696 | 123 | 9.232953 | 127 | 0.767047 | 9.993743 | 50 | |
| | 20 | 9.226819 | 123 | 9.233080 | 126 | 0.766920 | 9.993739 | 40 | |
| | 30 | 9.226942 | 123 | 9.233206 | 127 | 0.766794 | 9.993735 | 30 | |
| | 40 | 9.227065 | 123 | 9.233333 | 127 | 0.766667 | 9.993732 | 20 | |
| | 50 | 9.227188 | 123 | 9.233460 | 126 | 0.766540 | 9.993728 | 10 | |
| | | | 123 | | | | | | |
| 43 | 0 | 9.227311 | 123 | 9.233586 | 127 | 0.766414 | 9.993725 | 0 | 17 |
| | 10 | 9.227434 | 123 | 9.233713 | 126 | 0.766287 | 9.993721 | 50 | |
| | 20 | 9.227557 | 123 | 9.233839 | 127 | 0.766161 | 9.993717 | 40 | |
| | 30 | 9.227680 | 123 | 9.233966 | 126 | 0.766034 | 9.993714 | 30 | |
| | 40 | 9.227803 | 123 | 9.234092 | 127 | 0.765908 | 9.993710 | 20 | |
| | 50 | 9.227925 | 122 | 9.234219 | 126 | 0.765781 | 9.993707 | 10 | |
| | | | 123 | | | | | | |
| 44 | 0 | 9.228048 | 123 | 9.234345 | 126 | 0.765655 | 9.993703 | 0 | 16 |
| | 10 | 9.228171 | 123 | 9.234471 | 127 | 0.765529 | 9.993699 | 50 | |
| | 20 | 9.228294 | 123 | 9.234598 | 126 | 0.765402 | 9.993696 | 40 | |
| | 30 | 9.228416 | 122 | 9.234724 | 126 | 0.765276 | 9.993692 | 30 | |
| | 40 | 9.228539 | 123 | 9.234850 | 126 | 0.765150 | 9.993689 | 20 | |
| | 50 | 9.228661 | 122 | 9.234976 | 126 | 0.765024 | 9.993685 | 10 | |
| | | | 123 | | | | | | |
| 45 | 0 | 9.228784 | 122 | 9.235103 | 126 | 0.764897 | 9.993681 | 0 | 15 |
| | 10 | 9.228906 | 123 | 9.235229 | 126 | 0.764771 | 9.993678 | 50 | |
| | 20 | 9.229029 | 123 | 9.235355 | 126 | 0.764645 | 9.993674 | 40 | |
| | 30 | 9.229151 | 122 | 9.235481 | 126 | 0.764519 | 9.993670 | 30 | |
| | 40 | 9.229274 | 123 | 9.235607 | 126 | 0.764393 | 9.993667 | 20 | |
| | 50 | 9.229396 | 122 | 9.235733 | 126 | 0.764267 | 9.993663 | 10 | |
| | | | 122 | | | | | | |
| 46 | 0 | 9.229518 | 122 | 9.235859 | 126 | 0.764141 | 9.993660 | 0 | 14 |
| | 10 | 9.229641 | 123 | 9.235985 | 126 | 0.764015 | 9.993656 | 50 | |
| | 20 | 9.229763 | 122 | 9.236111 | 126 | 0.763889 | 9.993652 | 40 | |
| | 30 | 9.229885 | 122 | 9.236237 | 125 | 0.763763 | 9.993649 | 30 | |
| | 40 | 9.230007 | 122 | 9.236362 | 125 | 0.763638 | 9.993645 | 20 | |
| | 50 | 9.230130 | 123 | 9.236488 | 126 | 0.763512 | 9.993641 | 10 | |
| | | | 122 | | | | | | |
| 47 | 0 | 9.230252 | 122 | 9.236614 | 126 | 0.763386 | 9.993638 | 0 | 13 |
| | 10 | 9.230374 | 122 | 9.236740 | 125 | 0.763260 | 9.993634 | 50 | |
| | 20 | 9.230496 | 122 | 9.236865 | 126 | 0.763135 | 9.993631 | 40 | |
| | 30 | 9.230618 | 122 | 9.236991 | 126 | 0.763009 | 9.993627 | 30 | |
| | 40 | 9.230740 | 122 | 9.237117 | 126 | 0.762883 | 9.993623 | 20 | |
| | 50 | 9.230862 | 122 | 9.237242 | 125 | 0.762758 | 9.993620 | 10 | |
| | | | 122 | | | | | | |
| 48 | 0 | 9.230984 | 122 | 9.237368 | 125 | 0.762632 | 9.993616 | 0 | 12 |
| | 10 | 9.231106 | 122 | 9.237493 | 125 | 0.762507 | 9.993612 | 50 | |
| | 20 | 9.231228 | 122 | 9.237619 | 126 | 0.762381 | 9.993609 | 40 | |
| | 30 | 9.231349 | 121 | 9.237744 | 125 | 0.762256 | 9.993605 | 30 | |
| | 40 | 9.231471 | 122 | 9.237870 | 126 | 0.762130 | 9.993601 | 20 | |
| | 50 | 9.231593 | 122 | 9.237995 | 125 | 0.762005 | 9.993598 | 10 | |
| | | | 122 | | | | | | |
| 49 | 0 | 9.231715 | 121 | 9.238120 | 125 | 0.761879 | 9.993594 | 0 | 11 |
| | 10 | 9.231836 | 121 | 9.238246 | 126 | 0.761753 | 9.993591 | 50 | |
| | 20 | 9.231958 | 122 | 9.238371 | 125 | 0.761629 | 9.993587 | 40 | |
| | 30 | 9.232079 | 121 | 9.238496 | 125 | 0.761504 | 9.993583 | 30 | |
| | 40 | 9.232201 | 122 | 9.238621 | 125 | 0.761379 | 9.993580 | 20 | |
| | 50 | 9.232323 | 122 | 9.238747 | 126 | 0.761253 | 9.993576 | 10 | |
| | | | 121 | | | | | | |
| 50 | 0 | 9.232444 | 121 | 9.238872 | 125 | 0.761128 | 9.993572 | 0 | 10 |
| | | | | | | | | | |
| | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 50 | 0 | 9.232444 | 121 | 9.238872 | 125 | 0.761128 | 9.993572 | 0 | 10 |
| | 10 | 9.232565 | 122 | 9.238997 | 125 | 0.761003 | 9.993569 | 50 | |
| | 20 | 9.232687 | 121 | 9.239122 | 125 | 0.760878 | 9.993565 | 40 | |
| | 30 | 9.232808 | 122 | 9.239247 | 125 | 0.760753 | 9.993561 | 30 | |
| | 40 | 9.232930 | 121 | 9.239372 | 125 | 0.760628 | 9.993558 | 20 | |
| | 50 | 9.233051 | 121 | 9.239497 | 125 | 0.760503 | 9.993554 | 10 | |
| 51 | 0 | 9.233172 | 121 | 9.239622 | 125 | 0.760378 | 9.993550 | 0 | 9 |
| | 10 | 9.233293 | 122 | 9.239747 | 125 | 0.760253 | 9.993547 | 50 | |
| | 20 | 9.233415 | 122 | 9.239872 | 125 | 0.760128 | 9.993543 | 40 | |
| | 30 | 9.233536 | 121 | 9.239996 | 124 | 0.760004 | 9.993539 | 30 | |
| | 40 | 9.233657 | 121 | 9.240121 | 125 | 0.759879 | 9.993536 | 20 | |
| | 50 | 9.233778 | 121 | 9.240246 | 125 | 0.759754 | 9.993532 | 10 | |
| 52 | 0 | 9.233899 | 121 | 9.240371 | 124 | 0.759629 | 9.993528 | 0 | 8 |
| | 10 | 9.234020 | 121 | 9.240495 | 125 | 0.759505 | 9.993525 | 50 | |
| | 20 | 9.234141 | 121 | 9.240620 | 125 | 0.759380 | 9.993521 | 40 | |
| | 30 | 9.234262 | 121 | 9.240745 | 125 | 0.759255 | 9.993517 | 30 | |
| | 40 | 9.234383 | 121 | 9.240869 | 124 | 0.759131 | 9.993514 | 20 | |
| | 50 | 9.234504 | 121 | 9.240994 | 125 | 0.759006 | 9.993510 | 10 | |
| 53 | 0 | 9.234625 | 121 | 9.241118 | 124 | 0.758882 | 9.993506 | 0 | 7 |
| | 10 | 9.234746 | 121 | 9.241243 | 125 | 0.758757 | 9.993503 | 50 | |
| | 20 | 9.234867 | 121 | 9.241367 | 124 | 0.758633 | 9.993499 | 40 | |
| | 30 | 9.234987 | 120 | 9.241492 | 125 | 0.758508 | 9.993495 | 30 | |
| | 40 | 9.235108 | 121 | 9.241616 | 124 | 0.758384 | 9.993492 | 20 | |
| | 50 | 9.235229 | 121 | 9.241741 | 125 | 0.758259 | 9.993488 | 10 | |
| 54 | 0 | 9.235349 | 121 | 9.241865 | 124 | 0.758135 | 9.993484 | 0 | 6 |
| | 10 | 9.235470 | 121 | 9.241989 | 124 | 0.758011 | 9.993481 | 50 | |
| | 20 | 9.235591 | 121 | 9.242114 | 125 | 0.757886 | 9.993477 | 40 | |
| | 30 | 9.235711 | 120 | 9.242238 | 124 | 0.757762 | 9.993473 | 30 | |
| | 40 | 9.235832 | 121 | 9.242362 | 124 | 0.757638 | 9.993470 | 20 | |
| | 50 | 9.235952 | 121 | 9.242486 | 124 | 0.757514 | 9.993466 | 10 | |
| 55 | 0 | 9.236073 | 120 | 9.242610 | 124 | 0.757390 | 9.993462 | 0 | 5 |
| | 10 | 9.236193 | 120 | 9.242734 | 124 | 0.757266 | 9.993459 | 50 | |
| | 20 | 9.236313 | 121 | 9.242858 | 124 | 0.757142 | 9.993455 | 40 | |
| | 30 | 9.236434 | 120 | 9.242982 | 124 | 0.757018 | 9.993451 | 30 | |
| | 40 | 9.236554 | 120 | 9.243106 | 124 | 0.756894 | 9.993448 | 20 | |
| | 50 | 9.236674 | 120 | 9.243230 | 124 | 0.756770 | 9.993444 | 10 | |
| 56 | 0 | 9.236795 | 121 | 9.243354 | 124 | 0.756646 | 9.993440 | 0 | 4 |
| | 10 | 9.236915 | 120 | 9.243478 | 124 | 0.756522 | 9.993437 | 50 | |
| | 20 | 9.237035 | 120 | 9.243602 | 124 | 0.756398 | 9.993433 | 40 | |
| | 30 | 9.237155 | 120 | 9.243726 | 124 | 0.756274 | 9.993429 | 30 | |
| | 40 | 9.237275 | 120 | 9.243850 | 124 | 0.756150 | 9.993426 | 20 | |
| | 50 | 9.237395 | 120 | 9.243974 | 124 | 0.756026 | 9.993422 | 10 | |
| 57 | 0 | 9.237515 | 120 | 9.244097 | 123 | 0.755903 | 9.993418 | 0 | 3 |
| | 10 | 9.237635 | 120 | 9.244221 | 124 | 0.755779 | 9.993414 | 50 | |
| | 20 | 9.237755 | 120 | 9.244345 | 124 | 0.755655 | 9.993411 | 40 | |
| | 30 | 9.237875 | 120 | 9.244468 | 123 | 0.755532 | 9.993407 | 30 | |
| | 40 | 9.237995 | 120 | 9.244592 | 124 | 0.755408 | 9.993403 | 20 | |
| | 50 | 9.238115 | 120 | 9.244715 | 123 | 0.755285 | 9.993400 | 10 | |
| 58 | 0 | 9.238235 | 120 | 9.244839 | 124 | 0.755161 | 9.993396 | 0 | 2 |
| | 10 | 9.238355 | 120 | 9.244962 | 123 | 0.755038 | 9.993392 | 50 | |
| | 20 | 9.238474 | 119 | 9.245086 | 124 | 0.754914 | 9.993389 | 40 | |
| | 30 | 9.238594 | 120 | 9.245209 | 123 | 0.754791 | 9.993385 | 30 | |
| | 40 | 9.238714 | 120 | 9.245333 | 124 | 0.754667 | 9.993381 | 20 | |
| | 50 | 9.238834 | 120 | 9.245456 | 123 | 0.754544 | 9.993377 | 10 | |
| 59 | 0 | 9.238953 | 119 | 9.245579 | 123 | 0.754421 | 9.993374 | 0 | 1 |
| | 10 | 9.239073 | 120 | 9.245703 | 124 | 0.754297 | 9.993370 | 50 | |
| | 20 | 9.239192 | 119 | 9.245826 | 123 | 0.754174 | 9.993366 | 40 | |
| | 30 | 9.239312 | 120 | 9.245949 | 123 | 0.754051 | 9.993363 | 30 | |
| | 40 | 9.239431 | 119 | 9.246072 | 123 | 0.753928 | 9.993359 | 20 | |
| | 50 | 9.239551 | 120 | 9.246196 | 124 | 0.753804 | 9.993355 | 10 | |
| 60 | 0 | 9.239670 | 119 | 9.246319 | 123 | 0.753681 | 9.993351 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

123
1 12.3
2 24.6
3 36.9
4 49.2
5 61.5
6 73.8
7 86.1
8 98.4
9 110.7

122
1 12.2
2 24.4
3 36.6
4 48.8
5 61.0
6 73.2
7 85.4
8 97.6
9 109.8

121
1 12.1
2 24.2
3 36.3
4 48.4
5 60.5
6 72.6
7 84.7
8 96.8
9 108.9

120
1 12.0
2 24.0
3 36.0
4 48.0
5 60.0
6 72.0
7 84.0
8 96.0
9 108.0

119
1 11.9
2 23.8
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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 0 | 0 | 9.239670 | 120 | 9.246319 | 123 | 0.753681 | 9.993351 | 0 | 60 |
| | 10 | 9.239790 | 119 | 9.246442 | 123 | 0.753558 | 9.993348 | 50 | |
| | 20 | 9.239909 | 119 | 9.246565 | 123 | 0.753435 | 9.993344 | 40 | |
| | 30 | 9.240028 | 120 | 9.246688 | 123 | 0.753312 | 9.993340 | 30 | |
| | 40 | 9.240148 | 119 | 9.246811 | 123 | 0.753189 | 9.993337 | 20 | |
| | 50 | 9.240267 | 119 | 9.246934 | 123 | 0.753066 | 9.993333 | 10 | |
| 1 | 0 | 9.240386 | 119 | 9.247057 | 123 | 0.752943 | 9.993329 | 0 | 59 |
| | 10 | 9.240505 | 119 | 9.247180 | 123 | 0.752820 | 9.993325 | 50 | |
| | 20 | 9.240624 | 120 | 9.247303 | 123 | 0.752697 | 9.993322 | 40 | |
| | 30 | 9.240744 | 119 | 9.247426 | 122 | 0.752574 | 9.993318 | 30 | |
| | 40 | 9.240863 | 119 | 9.247548 | 123 | 0.752452 | 9.993314 | 20 | |
| | 50 | 9.240982 | 119 | 9.247671 | 123 | 0.752329 | 9.993311 | 10 | |
| 2 | 0 | 9.241101 | 119 | 9.247794 | 123 | 0.752206 | 9.993307 | 0 | 58 |
| | 10 | 9.241220 | 119 | 9.247917 | 122 | 0.752083 | 9.993303 | 50 | |
| | 20 | 9.241339 | 119 | 9.248039 | 123 | 0.751961 | 9.993299 | 40 | |
| | 30 | 9.241458 | 118 | 9.248162 | 123 | 0.751838 | 9.993296 | 30 | |
| | 40 | 9.241576 | 119 | 9.248285 | 123 | 0.751715 | 9.993292 | 20 | |
| | 50 | 9.241695 | 119 | 9.248407 | 122 | 0.751593 | 9.993288 | 10 | |
| 3 | 0 | 9.241814 | 119 | 9.248530 | 123 | 0.751470 | 9.993284 | 0 | 57 |
| | 10 | 9.241933 | 119 | 9.248652 | 122 | 0.751348 | 9.993281 | 50 | |
| | 20 | 9.242052 | 118 | 9.248775 | 122 | 0.751225 | 9.993277 | 40 | |
| | 30 | 9.242170 | 119 | 9.248897 | 123 | 0.751103 | 9.993273 | 30 | |
| | 40 | 9.242289 | 119 | 9.249020 | 123 | 0.750980 | 9.993270 | 20 | |
| | 50 | 9.242408 | 118 | 9.249142 | 122 | 0.750858 | 9.993266 | 10 | |
| 4 | 0 | 9.242526 | 119 | 9.249264 | 122 | 0.750736 | 9.993262 | 0 | 56 |
| | 10 | 9.242645 | 118 | 9.249387 | 122 | 0.750613 | 9.993258 | 50 | |
| | 20 | 9.242763 | 119 | 9.249509 | 122 | 0.750491 | 9.993255 | 40 | |
| | 30 | 9.242882 | 119 | 9.249631 | 122 | 0.750369 | 9.993251 | 30 | |
| | 40 | 9.243001 | 118 | 9.249753 | 122 | 0.750247 | 9.993247 | 20 | |
| | 50 | 9.243119 | 118 | 9.249876 | 123 | 0.750124 | 9.993243 | 10 | |
| 5 | 0 | 9.243237 | 119 | 9.249998 | 122 | 0.750002 | 9.993240 | 0 | 55 |
| | 10 | 9.243356 | 118 | 9.250120 | 122 | 0.749880 | 9.993236 | 50 | |
| | 20 | 9.243474 | 118 | 9.250242 | 122 | 0.749758 | 9.993232 | 40 | |
| | 30 | 9.243592 | 119 | 9.250364 | 122 | 0.749636 | 9.993228 | 30 | |
| | 40 | 9.243711 | 118 | 9.250486 | 122 | 0.749514 | 9.993225 | 20 | |
| | 50 | 9.243829 | 118 | 9.250608 | 122 | 0.749392 | 9.993221 | 10 | |
| 6 | 0 | 9.243947 | 118 | 9.250730 | 122 | 0.749270 | 9.993217 | 0 | 54 |
| | 10 | 9.244065 | 119 | 9.250852 | 122 | 0.749148 | 9.993213 | 50 | |
| | 20 | 9.244184 | 118 | 9.250974 | 122 | 0.749026 | 9.993210 | 40 | |
| | 30 | 9.244302 | 118 | 9.251096 | 122 | 0.748904 | 9.993206 | 30 | |
| | 40 | 9.244420 | 118 | 9.251218 | 122 | 0.748782 | 9.993202 | 20 | |
| | 50 | 9.244538 | 118 | 9.251339 | 121 | 0.748661 | 9.993198 | 10 | |
| 7 | 0 | 9.244656 | 118 | 9.251461 | 122 | 0.748539 | 9.993195 | 0 | 53 |
| | 10 | 9.244774 | 118 | 9.251583 | 122 | 0.748417 | 9.993191 | 50 | |
| | 20 | 9.244892 | 118 | 9.251705 | 122 | 0.748295 | 9.993187 | 40 | |
| | 30 | 9.245010 | 118 | 9.251826 | 121 | 0.748174 | 9.993183 | 30 | |
| | 40 | 9.245128 | 118 | 9.251948 | 122 | 0.748052 | 9.993180 | 20 | |
| | 50 | 9.245245 | 117 | 9.252070 | 122 | 0.747930 | 9.993176 | 10 | |
| 8 | 0 | 9.245363 | 118 | 9.252191 | 121 | 0.747809 | 9.993172 | 0 | 52 |
| | 10 | 9.245481 | 118 | 9.252313 | 122 | 0.747687 | 9.993168 | 50 | |
| | 20 | 9.245599 | 118 | 9.252434 | 121 | 0.747565 | 9.993165 | 40 | |
| | 30 | 9.245717 | 118 | 9.252556 | 122 | 0.747444 | 9.993161 | 30 | |
| | 40 | 9.245834 | 117 | 9.252677 | 121 | 0.747323 | 9.993157 | 20 | |
| | 50 | 9.245952 | 118 | 9.252799 | 122 | 0.747201 | 9.993153 | 10 | |
| 9 | 0 | 9.246069 | 117 | 9.252920 | 121 | 0.747080 | 9.993149 | 0 | 51 |
| | 10 | 9.246187 | 118 | 9.253041 | 122 | 0.746959 | 9.993146 | 50 | |
| | 20 | 9.246305 | 118 | 9.253163 | 122 | 0.746837 | 9.993142 | 40 | |
| | 30 | 9.246422 | 117 | 9.253284 | 121 | 0.746716 | 9.993138 | 30 | |
| | 40 | 9.246540 | 118 | 9.253405 | 121 | 0.746595 | 9.993134 | 20 | |
| | 50 | 9.246657 | 117 | 9.253527 | 122 | 0.746473 | 9.993131 | 10 | |
| 10 | 0 | 9.246775 | 118 | 9.253648 | 121 | 0.746352 | 9.993127 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 10 | 0 | 9.246775 | 117 | 9.253648 | 121 | 0.746352 | 9.993127 | 0 | 50 |
| | 10 | 9.246892 | 117 | 9.253769 | 121 | 0.746231 | 9.993123 | 50 | |
| | 20 | 9.247009 | 118 | 9.253890 | 121 | 0.746110 | 9.993119 | 40 | |
| | 30 | 9.247127 | 117 | 9.254011 | 121 | 0.745989 | 9.993115 | 30 | |
| | 40 | 9.247244 | 117 | 9.254132 | 121 | 0.745868 | 9.993112 | 20 | |
| | 50 | 9.247361 | 117 | 9.254253 | 121 | 0.745747 | 9.993108 | 10 | |
| 11 | 0 | 9.247478 | 118 | 9.254374 | 121 | 0.745626 | 9.993104 | 0 | 49 |
| | 10 | 9.247596 | 117 | 9.254495 | 121 | 0.745505 | 9.993100 | 50 | |
| | 20 | 9.247713 | 117 | 9.254616 | 121 | 0.745384 | 9.993097 | 40 | |
| | 30 | 9.247830 | 117 | 9.254737 | 121 | 0.745263 | 9.993093 | 30 | |
| | 40 | 9.247947 | 117 | 9.254858 | 121 | 0.745142 | 9.993089 | 20 | |
| | 50 | 9.248064 | 117 | 9.254979 | 121 | 0.745021 | 9.993085 | 10 | |
| 12 | 0 | 9.248181 | 117 | 9.255100 | 121 | 0.744900 | 9.993081 | 0 | 48 |
| | 10 | 9.248298 | 117 | 9.255221 | 120 | 0.744779 | 9.993078 | 50 | |
| | 20 | 9.248415 | 117 | 9.255341 | 121 | 0.744659 | 9.993074 | 40 | |
| | 30 | 9.248532 | 117 | 9.255462 | 121 | 0.744538 | 9.993070 | 30 | |
| | 40 | 9.248649 | 117 | 9.255583 | 120 | 0.744417 | 9.993066 | 20 | |
| | 50 | 9.248766 | 117 | 9.255703 | 121 | 0.744297 | 9.993062 | 10 | |
| 13 | 0 | 9.248883 | 116 | 9.255824 | 121 | 0.744176 | 9.993059 | 0 | 47 |
| | 10 | 9.248999 | 117 | 9.255945 | 120 | 0.744055 | 9.993055 | 50 | |
| | 20 | 9.249116 | 117 | 9.256065 | 121 | 0.743935 | 9.993051 | 40 | |
| | 30 | 9.249233 | 117 | 9.256186 | 120 | 0.743814 | 9.993047 | 30 | |
| | 40 | 9.249350 | 116 | 9.256306 | 121 | 0.743694 | 9.993043 | 20 | |
| | 50 | 9.249466 | 117 | 9.256427 | 120 | 0.743573 | 9.993040 | 10 | |
| 14 | 0 | 9.249583 | 117 | 9.256547 | 121 | 0.743453 | 9.993036 | 0 | 46 |
| | 10 | 9.249700 | 116 | 9.256668 | 121 | 0.743332 | 9.993032 | 50 | |
| | 20 | 9.249816 | 117 | 9.256788 | 120 | 0.743212 | 9.993028 | 40 | |
| | 30 | 9.249933 | 116 | 9.256908 | 121 | 0.743092 | 9.993024 | 30 | |
| | 40 | 9.250049 | 117 | 9.257029 | 120 | 0.742971 | 9.993021 | 20 | |
| | 50 | 9.250166 | 116 | 9.257149 | 120 | 0.742851 | 9.993017 | 10 | |
| 15 | 0 | 9.250282 | 117 | 9.257269 | 120 | 0.742731 | 9.993013 | 0 | 45 |
| | 10 | 9.250399 | 116 | 9.257389 | 121 | 0.742611 | 9.993009 | 50 | |
| | 20 | 9.250515 | 116 | 9.257510 | 121 | 0.742490 | 9.993005 | 40 | |
| | 30 | 9.250631 | 117 | 9.257630 | 120 | 0.742370 | 9.993002 | 30 | |
| | 40 | 9.250748 | 116 | 9.257750 | 120 | 0.742250 | 9.992998 | 20 | |
| | 50 | 9.250864 | 116 | 9.257870 | 120 | 0.742130 | 9.992994 | 10 | |
| 16 | 0 | 9.250980 | 117 | 9.257990 | 120 | 0.742010 | 9.992990 | 0 | 44 |
| | 10 | 9.251097 | 116 | 9.258110 | 120 | 0.741890 | 9.992986 | 50 | |
| | 20 | 9.251213 | 116 | 9.258230 | 120 | 0.741770 | 9.992983 | 40 | |
| | 30 | 9.251329 | 116 | 9.258350 | 120 | 0.741650 | 9.992979 | 30 | |
| | 40 | 9.251445 | 116 | 9.258470 | 120 | 0.741530 | 9.992975 | 20 | |
| | 50 | 9.251561 | 116 | 9.258590 | 120 | 0.741410 | 9.992971 | 10 | |
| 17 | 0 | 9.251677 | 116 | 9.258710 | 120 | 0.741290 | 9.992967 | 0 | 43 |
| | 10 | 9.251793 | 116 | 9.258830 | 120 | 0.741170 | 9.992963 | 50 | |
| | 20 | 9.251909 | 116 | 9.258950 | 119 | 0.741050 | 9.992960 | 40 | |
| | 30 | 9.252025 | 116 | 9.259069 | 120 | 0.740931 | 9.992956 | 30 | |
| | 40 | 9.252141 | 116 | 9.259189 | 120 | 0.740811 | 9.992952 | 20 | |
| | 50 | 9.252257 | 116 | 9.259309 | 120 | 0.740691 | 9.992948 | 10 | |
| 18 | 0 | 9.252373 | 116 | 9.259429 | 119 | 0.740571 | 9.992944 | 0 | 42 |
| | 10 | 9.252489 | 116 | 9.259548 | 120 | 0.740452 | 9.992941 | 50 | |
| | 20 | 9.252605 | 115 | 9.259668 | 119 | 0.740332 | 9.992937 | 40 | |
| | 30 | 9.252720 | 116 | 9.259787 | 120 | 0.740213 | 9.992933 | 30 | |
| | 40 | 9.252836 | 116 | 9.259907 | 120 | 0.740093 | 9.992929 | 20 | |
| | 50 | 9.252952 | 115 | 9.260027 | 119 | 0.739973 | 9.992925 | 10 | |
| 19 | 0 | 9.253067 | 116 | 9.260146 | 120 | 0.739854 | 9.992921 | 0 | 41 |
| | 10 | 9.253183 | 116 | 9.260266 | 119 | 0.739734 | 9.992918 | 50 | |
| | 20 | 9.253299 | 115 | 9.260385 | 119 | 0.739615 | 9.992914 | 40 | |
| | 30 | 9.253414 | 116 | 9.260504 | 120 | 0.739496 | 9.992910 | 30 | |
| | 40 | 9.253530 | 115 | 9.260624 | 119 | 0.739376 | 9.992906 | 20 | |
| | 50 | 9.253645 | 116 | 9.260743 | 120 | 0.739257 | 9.992902 | 10 | |
| 20 | 0 | 9.253761 | 116 | 9.260863 | 120 | 0.739137 | 9.992898 | 0 | 40 |

119
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115
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7 80.5
8 92.0
9 103.5

| | | Sin | d. | Tang | d.c. | Cotg | Cos | | |
|---------|----|----------|-----|----------|------|----------|----------|----|----|
| 20 | 0 | 9.253761 | 115 | 9.260863 | 119 | 0.739137 | 9.992898 | 0 | 40 |
| | 10 | 9.253876 | 116 | 9.260982 | 119 | 0.739018 | 9.992895 | 50 | |
| | 20 | 9.253992 | 116 | 9.261101 | 119 | 0.738899 | 9.992891 | 40 | |
| 120 | 30 | 9.254107 | 115 | 9.261220 | 119 | 0.738780 | 9.992887 | 30 | |
| 1 12.0 | 40 | 9.254223 | 115 | 9.261340 | 120 | 0.738660 | 9.992883 | 20 | |
| 2 24.0 | 50 | 9.254338 | 115 | 9.261459 | 119 | 0.738541 | 9.992879 | 10 | |
| 3 36.0 | 0 | 9.254453 | 115 | 9.261578 | 119 | 0.738422 | 9.992875 | 0 | 39 |
| 4 48.0 | 10 | 9.254568 | 115 | 9.261697 | 119 | 0.738303 | 9.992871 | 50 | |
| 5 60.0 | 20 | 9.254684 | 116 | 9.261816 | 119 | 0.738184 | 9.992868 | 40 | |
| 6 72.0 | 30 | 9.254799 | 115 | 9.261935 | 119 | 0.738065 | 9.992864 | 30 | |
| 7 84.0 | 40 | 9.254914 | 115 | 9.262054 | 119 | 0.737946 | 9.992860 | 20 | |
| 8 96.0 | 50 | 9.255029 | 115 | 9.262173 | 119 | 0.737827 | 9.992856 | 10 | |
| 9 108.0 | 0 | 9.255144 | 115 | 9.262292 | 119 | 0.737708 | 9.992852 | 0 | 38 |
| | 10 | 9.255259 | 115 | 9.262411 | 119 | 0.737589 | 9.992848 | 50 | |
| | 20 | 9.255374 | 116 | 9.262530 | 119 | 0.737470 | 9.992845 | 40 | |
| 119 | 30 | 9.255490 | 116 | 9.262649 | 119 | 0.737351 | 9.992841 | 30 | |
| 1 11.9 | 40 | 9.255604 | 114 | 9.262768 | 119 | 0.737232 | 9.992837 | 20 | |
| 2 23.8 | 50 | 9.255719 | 115 | 9.262887 | 118 | 0.737113 | 9.992833 | 10 | |
| 3 35.7 | 0 | 9.255834 | 115 | 9.263005 | 119 | 0.736995 | 9.992829 | 0 | 37 |
| 4 47.6 | 10 | 9.255949 | 115 | 9.263124 | 119 | 0.736876 | 9.992825 | 50 | |
| 5 59.5 | 20 | 9.256064 | 115 | 9.263243 | 118 | 0.736757 | 9.992821 | 40 | |
| 6 71.4 | 30 | 9.256179 | 115 | 9.263361 | 119 | 0.736639 | 9.992818 | 30 | |
| 7 83.3 | 40 | 9.256294 | 115 | 9.263480 | 119 | 0.736520 | 9.992814 | 20 | |
| 8 95.2 | 50 | 9.256409 | 115 | 9.263599 | 119 | 0.736401 | 9.992810 | 10 | |
| 9 107.1 | 0 | 9.256523 | 114 | 9.263717 | 118 | 0.736282 | 9.992806 | 0 | 36 |
| | 10 | 9.256638 | 115 | 9.263836 | 118 | 0.736164 | 9.992802 | 50 | |
| 118 | 20 | 9.256753 | 114 | 9.263954 | 119 | 0.736046 | 9.992798 | 40 | |
| 1 11.8 | 30 | 9.256867 | 114 | 9.264073 | 118 | 0.735927 | 9.992794 | 30 | |
| 2 23.6 | 40 | 9.256982 | 115 | 9.264191 | 118 | 0.735809 | 9.992790 | 20 | |
| 3 35.4 | 50 | 9.257096 | 114 | 9.264310 | 118 | 0.735690 | 9.992787 | 10 | |
| 4 47.2 | 0 | 9.257211 | 115 | 9.264428 | 119 | 0.735572 | 9.992783 | 0 | 35 |
| 5 59.0 | 10 | 9.257326 | 115 | 9.264547 | 118 | 0.735453 | 9.992779 | 50 | |
| 6 70.8 | 20 | 9.257440 | 114 | 9.264665 | 118 | 0.735335 | 9.992775 | 40 | |
| 7 82.6 | 30 | 9.257554 | 114 | 9.264783 | 119 | 0.735217 | 9.992771 | 30 | |
| 8 94.4 | 40 | 9.257669 | 115 | 9.264902 | 118 | 0.735098 | 9.992767 | 20 | |
| 9 106.2 | 50 | 9.257783 | 114 | 9.265020 | 118 | 0.734980 | 9.992763 | 10 | |
| | 0 | 9.257898 | 115 | 9.265138 | 118 | 0.734862 | 9.992759 | 0 | 34 |
| | 10 | 9.258012 | 114 | 9.265256 | 118 | 0.734744 | 9.992756 | 50 | |
| 117 | 20 | 9.258126 | 114 | 9.265375 | 119 | 0.734625 | 9.992752 | 40 | |
| 1 11.7 | 30 | 9.258241 | 115 | 9.265493 | 118 | 0.734507 | 9.992748 | 30 | |
| 2 23.4 | 40 | 9.258355 | 114 | 9.265611 | 118 | 0.734389 | 9.992744 | 20 | |
| 3 35.1 | 50 | 9.258469 | 114 | 9.265729 | 118 | 0.734271 | 9.992740 | 10 | |
| 4 46.8 | 0 | 9.258583 | 114 | 9.265847 | 118 | 0.734153 | 9.992736 | 0 | 33 |
| 5 58.5 | 10 | 9.258697 | 114 | 9.265965 | 118 | 0.734035 | 9.992732 | 50 | |
| 6 70.2 | 20 | 9.258811 | 114 | 9.266083 | 118 | 0.733917 | 9.992728 | 40 | |
| 7 81.9 | 30 | 9.258926 | 115 | 9.266201 | 118 | 0.733799 | 9.992725 | 30 | |
| 8 93.6 | 40 | 9.259040 | 114 | 9.266319 | 118 | 0.733681 | 9.992721 | 20 | |
| 9 105.3 | 50 | 9.259154 | 114 | 9.266437 | 118 | 0.733563 | 9.992717 | 10 | |
| | 0 | 9.259268 | 114 | 9.266555 | 118 | 0.733445 | 9.992713 | 0 | 32 |
| | 10 | 9.259382 | 114 | 9.266673 | 118 | 0.733327 | 9.992709 | 50 | |
| 116 | 20 | 9.259495 | 113 | 9.266790 | 117 | 0.733210 | 9.992705 | 40 | |
| 1 11.6 | 30 | 9.259609 | 114 | 9.266908 | 118 | 0.733092 | 9.992701 | 30 | |
| 2 23.2 | 40 | 9.259723 | 114 | 9.267026 | 118 | 0.732974 | 9.992697 | 20 | |
| 3 34.8 | 50 | 9.259837 | 114 | 9.267144 | 118 | 0.732856 | 9.992693 | 10 | |
| 4 46.4 | 0 | 9.259951 | 114 | 9.267261 | 117 | 0.732737 | 9.992689 | 0 | 31 |
| 5 58.0 | 10 | 9.260065 | 114 | 9.267379 | 118 | 0.732619 | 9.992686 | 50 | |
| 6 69.6 | 20 | 9.260178 | 113 | 9.267497 | 117 | 0.732503 | 9.992682 | 40 | |
| 7 81.2 | 30 | 9.260292 | 114 | 9.267614 | 117 | 0.732386 | 9.992678 | 30 | |
| 8 92.8 | 40 | 9.260406 | 114 | 9.267732 | 118 | 0.732268 | 9.992674 | 20 | |
| 9 104.4 | 50 | 9.260519 | 113 | 9.267849 | 117 | 0.732151 | 9.992670 | 10 | |
| | 0 | 9.260633 | 114 | 9.267967 | 118 | 0.732033 | 9.992666 | 0 | 30 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|------|----------|----------|----|----|
| 30 | 0 | 9.260633 | 114 | 9.267967 | 117 | 0.732033 | 9.992666 | 0 | 30 |
| | 10 | 9.260747 | 113 | 9.268084 | 117 | 0.731916 | 9.992662 | 50 | |
| | 20 | 9.260860 | 113 | 9.268202 | 118 | 0.731798 | 9.992658 | 40 | |
| | 30 | 9.260974 | 114 | 9.268319 | 117 | 0.731681 | 9.992654 | 30 | |
| | 40 | 9.261087 | 113 | 9.268437 | 118 | 0.731563 | 9.992650 | 20 | |
| | 50 | 9.261201 | 114 | 9.268554 | 117 | 0.731446 | 9.992647 | 10 | |
| 31 | 0 | 9.261314 | 113 | 9.268671 | 117 | 0.731329 | 9.992643 | 0 | 29 |
| | 10 | 9.261428 | 114 | 9.268789 | 118 | 0.731211 | 9.992639 | 50 | |
| | 20 | 9.261541 | 113 | 9.268906 | 117 | 0.731094 | 9.992635 | 40 | |
| | 30 | 9.261654 | 113 | 9.269023 | 117 | 0.730977 | 9.992631 | 30 | |
| | 40 | 9.261768 | 114 | 9.269140 | 117 | 0.730860 | 9.992627 | 20 | |
| | 50 | 9.261881 | 113 | 9.269258 | 118 | 0.730742 | 9.992623 | 10 | |
| 32 | 0 | 9.261994 | 113 | 9.269375 | 117 | 0.730625 | 9.992619 | 0 | 28 |
| | 10 | 9.262107 | 113 | 9.269492 | 117 | 0.730508 | 9.992615 | 50 | |
| | 20 | 9.262220 | 113 | 9.269609 | 117 | 0.730391 | 9.992611 | 40 | |
| | 30 | 9.262334 | 114 | 9.269726 | 117 | 0.730274 | 9.992607 | 30 | |
| | 40 | 9.262447 | 113 | 9.269843 | 117 | 0.730157 | 9.992604 | 20 | |
| | 50 | 9.262560 | 113 | 9.269960 | 117 | 0.730040 | 9.992600 | 10 | |
| 33 | 0 | 9.262673 | 113 | 9.270077 | 117 | 0.729923 | 9.992596 | 0 | 27 |
| | 10 | 9.262786 | 113 | 9.270194 | 117 | 0.729806 | 9.992592 | 50 | |
| | 20 | 9.262899 | 113 | 9.270311 | 117 | 0.729689 | 9.992588 | 40 | |
| | 30 | 9.263012 | 113 | 9.270428 | 117 | 0.729572 | 9.992584 | 30 | |
| | 40 | 9.263125 | 113 | 9.270545 | 117 | 0.729455 | 9.992580 | 20 | |
| | 50 | 9.263238 | 113 | 9.270662 | 117 | 0.729338 | 9.992576 | 10 | |
| 34 | 0 | 9.263351 | 113 | 9.270779 | 117 | 0.729221 | 9.992572 | 0 | 26 |
| | 10 | 9.263464 | 113 | 9.270895 | 116 | 0.729105 | 9.992568 | 50 | |
| | 20 | 9.263576 | 112 | 9.271012 | 117 | 0.728988 | 9.992564 | 40 | |
| | 30 | 9.263689 | 113 | 9.271129 | 117 | 0.728871 | 9.992560 | 30 | |
| | 40 | 9.263802 | 113 | 9.271246 | 117 | 0.728754 | 9.992556 | 20 | |
| | 50 | 9.263915 | 113 | 9.271362 | 116 | 0.728638 | 9.992553 | 10 | |
| 35 | 0 | 9.264027 | 112 | 9.271479 | 117 | 0.728521 | 9.992549 | 0 | 25 |
| | 10 | 9.264140 | 113 | 9.271595 | 116 | 0.728405 | 9.992545 | 50 | |
| | 20 | 9.264253 | 113 | 9.271712 | 117 | 0.728288 | 9.992541 | 40 | |
| | 30 | 9.264365 | 112 | 9.271829 | 117 | 0.728171 | 9.992537 | 30 | |
| | 40 | 9.264478 | 113 | 9.271945 | 116 | 0.728055 | 9.992533 | 20 | |
| | 50 | 9.264590 | 112 | 9.272062 | 117 | 0.727938 | 9.992529 | 10 | |
| 36 | 0 | 9.264703 | 113 | 9.272178 | 116 | 0.727822 | 9.992525 | 0 | 24 |
| | 10 | 9.264815 | 112 | 9.272294 | 116 | 0.727706 | 9.992521 | 50 | |
| | 20 | 9.264928 | 113 | 9.272411 | 117 | 0.727589 | 9.992517 | 40 | |
| | 30 | 9.265040 | 112 | 9.272527 | 116 | 0.727473 | 9.992513 | 30 | |
| | 40 | 9.265153 | 113 | 9.272644 | 117 | 0.727356 | 9.992509 | 20 | |
| | 50 | 9.265265 | 112 | 9.272760 | 116 | 0.727240 | 9.992505 | 10 | |
| 37 | 0 | 9.265377 | 112 | 9.272876 | 116 | 0.727124 | 9.992501 | 0 | 23 |
| | 10 | 9.265490 | 113 | 9.272992 | 116 | 0.727008 | 9.992497 | 50 | |
| | 20 | 9.265602 | 112 | 9.273109 | 117 | 0.726891 | 9.992493 | 40 | |
| | 30 | 9.265714 | 112 | 9.273225 | 116 | 0.726775 | 9.992489 | 30 | |
| | 40 | 9.265827 | 113 | 9.273341 | 116 | 0.726659 | 9.992485 | 20 | |
| | 50 | 9.265939 | 112 | 9.273457 | 116 | 0.726543 | 9.992482 | 10 | |
| 38 | 0 | 9.266051 | 112 | 9.273573 | 116 | 0.726427 | 9.992478 | 0 | 22 |
| | 10 | 9.266163 | 112 | 9.273689 | 116 | 0.726311 | 9.992474 | 50 | |
| | 20 | 9.266275 | 112 | 9.273805 | 116 | 0.726195 | 9.992470 | 40 | |
| | 30 | 9.266387 | 112 | 9.273921 | 116 | 0.726079 | 9.992466 | 30 | |
| | 40 | 9.266499 | 112 | 9.274037 | 116 | 0.725963 | 9.992462 | 20 | |
| | 50 | 9.266611 | 112 | 9.274153 | 116 | 0.725847 | 9.992458 | 10 | |
| 39 | 0 | 9.266723 | 112 | 9.274269 | 116 | 0.725731 | 9.992454 | 0 | 21 |
| | 10 | 9.266835 | 112 | 9.274385 | 116 | 0.725615 | 9.992450 | 50 | |
| | 20 | 9.266947 | 112 | 9.274501 | 116 | 0.725499 | 9.992446 | 40 | |
| | 30 | 9.267059 | 112 | 9.274617 | 116 | 0.725383 | 9.992442 | 30 | |
| | 40 | 9.267171 | 112 | 9.274733 | 116 | 0.725267 | 9.992438 | 20 | |
| | 50 | 9.267283 | 112 | 9.274849 | 116 | 0.725151 | 9.992434 | 10 | |
| 40 | 0 | 9.267395 | 112 | 9.274964 | 115 | 0.725036 | 9.992430 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

116

1 11.6
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5 57.5
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7 80.5
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8 89.6
9 100.8

| | | Sin | d. | Tang | d. c. | Cotg | Cos | | | |
|---------|----|-----|----------|------|----------|------|----------|----------|----|----|
| | 40 | 0 | 9.267395 | III | 9.274964 | II6 | 0.725036 | 9.992430 | 0 | 20 |
| | | 10 | 9.267506 | III | 9.275080 | II6 | 0.724920 | 9.992426 | 50 | |
| I 11.6 | | 20 | 9.267618 | III | 9.275196 | II6 | 0.724804 | 9.992422 | 40 | |
| 2 23.2 | | 30 | 9.267730 | III | 9.275312 | II5 | 0.724688 | 9.992418 | 30 | |
| 3 34.8 | | 40 | 9.267841 | III | 9.275427 | II6 | 0.724573 | 9.992414 | 20 | |
| 4 46.4 | | 50 | 9.267953 | III | 9.275543 | II5 | 0.724457 | 9.992410 | 10 | |
| 5 58.0 | 41 | 0 | 9.268065 | III | 9.275658 | II6 | 0.724342 | 9.992406 | 0 | 19 |
| 6 69.6 | | 10 | 9.268176 | III | 9.275774 | II6 | 0.724226 | 9.992402 | 50 | |
| 7 81.2 | | 20 | 9.268288 | III | 9.275890 | II5 | 0.724110 | 9.992398 | 40 | |
| 8 92.8 | | 30 | 9.268399 | III | 9.276005 | II5 | 0.723995 | 9.992394 | 30 | |
| 9 104.4 | | 40 | 9.268511 | III | 9.276121 | II5 | 0.723879 | 9.992390 | 20 | |
| | | 50 | 9.268622 | III | 9.276236 | II5 | 0.723764 | 9.992386 | 10 | |
| | 42 | 0 | 9.268734 | III | 9.276351 | II6 | 0.723649 | 9.992382 | 0 | 18 |
| | | 10 | 9.268845 | III | 9.276467 | II5 | 0.723533 | 9.992378 | 50 | |
| I 11.5 | | 20 | 9.268957 | III | 9.276582 | II6 | 0.723418 | 9.992374 | 40 | |
| 2 23.0 | | 30 | 9.269068 | III | 9.276698 | II5 | 0.723302 | 9.992370 | 30 | |
| 3 34.5 | | 40 | 9.269179 | III | 9.276813 | II5 | 0.723187 | 9.992366 | 20 | |
| 4 46.0 | | 50 | 9.269291 | III | 9.276928 | II5 | 0.723072 | 9.992363 | 10 | |
| 5 57.5 | 43 | 0 | 9.269402 | III | 9.277043 | II6 | 0.722957 | 9.992359 | 0 | 17 |
| 6 69.0 | | 10 | 9.269513 | III | 9.277159 | II5 | 0.722841 | 9.992355 | 50 | |
| 7 80.5 | | 20 | 9.269624 | III | 9.277274 | II5 | 0.722726 | 9.992351 | 40 | |
| 8 92.0 | | 30 | 9.269736 | III | 9.277389 | II5 | 0.722611 | 9.992347 | 30 | |
| 9 103.5 | | 40 | 9.269847 | III | 9.277504 | II5 | 0.722496 | 9.992343 | 20 | |
| | | 50 | 9.269958 | III | 9.277619 | II5 | 0.722381 | 9.992339 | 10 | |
| | 44 | 0 | 9.270069 | III | 9.277734 | II5 | 0.722266 | 9.992335 | 0 | 16 |
| | | 10 | 9.270180 | III | 9.277849 | II5 | 0.722151 | 9.992331 | 50 | |
| I 11.4 | | 20 | 9.270291 | III | 9.277964 | II5 | 0.722036 | 9.992327 | 40 | |
| 2 22.8 | | 30 | 9.270402 | III | 9.278079 | II5 | 0.721921 | 9.992323 | 30 | |
| 3 34.2 | | 40 | 9.270513 | III | 9.278194 | II5 | 0.721806 | 9.992319 | 20 | |
| 4 45.6 | | 50 | 9.270624 | III | 9.278309 | II5 | 0.721691 | 9.992315 | 10 | |
| 5 57.0 | 45 | 0 | 9.270735 | III | 9.278424 | II5 | 0.721576 | 9.992311 | 0 | 15 |
| 6 68.4 | | 10 | 9.270846 | III | 9.278539 | II5 | 0.721461 | 9.992307 | 50 | |
| 7 79.8 | | 20 | 9.270957 | III | 9.278654 | II5 | 0.721346 | 9.992303 | 40 | |
| 8 91.2 | | 30 | 9.271067 | III | 9.278769 | II5 | 0.721231 | 9.992299 | 30 | |
| 9 102.6 | | 40 | 9.271178 | III | 9.278884 | II5 | 0.721116 | 9.992295 | 20 | |
| | | 50 | 9.271289 | III | 9.278998 | II4 | 0.721002 | 9.992291 | 10 | |
| | 46 | 0 | 9.271400 | III | 9.279113 | II5 | 0.720887 | 9.992287 | 0 | 14 |
| | | 10 | 9.271510 | III | 9.279228 | II5 | 0.720772 | 9.992283 | 50 | |
| I 11.3 | | 20 | 9.271621 | III | 9.279342 | II4 | 0.720658 | 9.992279 | 40 | |
| 2 22.6 | | 30 | 9.271732 | III | 9.279457 | II5 | 0.720543 | 9.992275 | 30 | |
| 3 33.9 | | 40 | 9.271842 | III | 9.279572 | II5 | 0.720428 | 9.992271 | 20 | |
| 4 45.2 | | 50 | 9.271953 | III | 9.279686 | II4 | 0.720314 | 9.992267 | 10 | |
| 5 56.5 | 47 | 0 | 9.272064 | III | 9.279801 | II5 | 0.720199 | 9.992263 | 0 | 13 |
| 6 67.8 | | 10 | 9.272174 | III | 9.279915 | II4 | 0.720085 | 9.992259 | 50 | |
| 7 79.1 | | 20 | 9.272285 | III | 9.280030 | II5 | 0.719970 | 9.992255 | 40 | |
| 8 90.4 | | 30 | 9.272395 | III | 9.280144 | II4 | 0.719856 | 9.992251 | 30 | |
| 9 101.7 | | 40 | 9.272505 | III | 9.280259 | II5 | 0.719741 | 9.992247 | 20 | |
| | | 50 | 9.272616 | III | 9.280373 | II4 | 0.719627 | 9.992243 | 10 | |
| | 48 | 0 | 9.272726 | III | 9.280488 | II5 | 0.719512 | 9.992239 | 0 | 12 |
| | | 10 | 9.272837 | III | 9.280602 | II4 | 0.719398 | 9.992234 | 50 | |
| I 11.2 | | 20 | 9.272947 | III | 9.280717 | II5 | 0.719283 | 9.992230 | 40 | |
| 2 22.4 | | 30 | 9.273057 | III | 9.280831 | II4 | 0.719169 | 9.992226 | 30 | |
| 3 33.6 | | 40 | 9.273168 | III | 9.280945 | II4 | 0.719055 | 9.992222 | 20 | |
| 4 44.8 | | 50 | 9.273278 | III | 9.281059 | II4 | 0.718941 | 9.992218 | 10 | |
| 5 56.0 | 49 | 0 | 9.273388 | III | 9.281174 | II5 | 0.718826 | 9.992214 | 0 | 11 |
| 6 67.2 | | 10 | 9.273498 | III | 9.281288 | II4 | 0.718712 | 9.992210 | 50 | |
| 7 78.4 | | 20 | 9.273608 | III | 9.281402 | II4 | 0.718598 | 9.992206 | 40 | |
| 8 89.6 | | 30 | 9.273718 | III | 9.281516 | II4 | 0.718484 | 9.992202 | 30 | |
| 9 100.8 | | 40 | 9.273829 | III | 9.281630 | II4 | 0.718370 | 9.992198 | 20 | |
| | | 50 | 9.273939 | III | 9.281744 | II4 | 0.718256 | 9.992194 | 10 | |
| | 50 | 0 | 9.274049 | III | 9.281858 | II4 | 0.718142 | 9.992190 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 50 | 0 | 9.274049 | 110 | 9.281858 | 115 | 0.718142 | 9.992190 | 0 | 10 |
| | 10 | 9.274159 | 110 | 9.281973 | 114 | 0.718027 | 9.992186 | 50 | |
| | 20 | 9.274269 | 110 | 9.282087 | 114 | 0.717913 | 9.992182 | 40 | |
| | 30 | 9.274379 | 110 | 9.282201 | 113 | 0.717799 | 9.992178 | 30 | |
| | 40 | 9.274489 | 109 | 9.282314 | 114 | 0.717686 | 9.992174 | 20 | |
| | 50 | 9.274598 | 109 | 9.282428 | 114 | 0.717572 | 9.992170 | 10 | |
| 51 | 0 | 9.274708 | 110 | 9.282542 | 114 | 0.717458 | 9.992166 | 0 | 9 |
| | 10 | 9.274818 | 110 | 9.282656 | 114 | 0.717344 | 9.992162 | 50 | |
| | 20 | 9.274928 | 110 | 9.282770 | 114 | 0.717230 | 9.992158 | 40 | |
| | 30 | 9.275038 | 110 | 9.282884 | 114 | 0.717116 | 9.992154 | 30 | |
| | 40 | 9.275148 | 109 | 9.282998 | 113 | 0.717002 | 9.992150 | 20 | |
| | 50 | 9.275257 | 109 | 9.283111 | 114 | 0.716889 | 9.992146 | 10 | |
| 52 | 0 | 9.275367 | 110 | 9.283225 | 114 | 0.716775 | 9.992142 | 0 | 8 |
| | 10 | 9.275477 | 109 | 9.283339 | 114 | 0.716661 | 9.992138 | 50 | |
| | 20 | 9.275586 | 110 | 9.283453 | 113 | 0.716547 | 9.992134 | 40 | |
| | 30 | 9.275696 | 109 | 9.283566 | 114 | 0.716434 | 9.992130 | 30 | |
| | 40 | 9.275805 | 110 | 9.283680 | 113 | 0.716320 | 9.992126 | 20 | |
| | 50 | 9.275915 | 110 | 9.283793 | 114 | 0.716207 | 9.992122 | 10 | |
| 53 | 0 | 9.276025 | 109 | 9.283907 | 114 | 0.716093 | 9.992118 | 0 | 7 |
| | 10 | 9.276134 | 109 | 9.284021 | 113 | 0.715979 | 9.992113 | 50 | |
| | 20 | 9.276243 | 110 | 9.284134 | 114 | 0.715866 | 9.992109 | 40 | |
| | 30 | 9.276353 | 109 | 9.284248 | 113 | 0.715752 | 9.992105 | 30 | |
| | 40 | 9.276462 | 110 | 9.284361 | 113 | 0.715639 | 9.992101 | 20 | |
| | 50 | 9.276572 | 109 | 9.284474 | 114 | 0.715526 | 9.992097 | 10 | |
| 54 | 0 | 9.276681 | 109 | 9.284588 | 113 | 0.715412 | 9.992093 | 0 | 6 |
| | 10 | 9.276790 | 110 | 9.284701 | 114 | 0.715299 | 9.992089 | 50 | |
| | 20 | 9.276900 | 109 | 9.284815 | 115 | 0.715185 | 9.992085 | 40 | |
| | 30 | 9.277009 | 109 | 9.284928 | 113 | 0.715072 | 9.992081 | 30 | |
| | 40 | 9.277118 | 109 | 9.285041 | 113 | 0.714959 | 9.992077 | 20 | |
| | 50 | 9.277227 | 110 | 9.285154 | 114 | 0.714846 | 9.992073 | 10 | |
| 55 | 0 | 9.277337 | 109 | 9.285268 | 113 | 0.714732 | 9.992069 | 0 | 5 |
| | 10 | 9.277446 | 109 | 9.285381 | 113 | 0.714619 | 9.992065 | 50 | |
| | 20 | 9.277555 | 109 | 9.285494 | 113 | 0.714506 | 9.992061 | 40 | |
| | 30 | 9.277664 | 109 | 9.285607 | 113 | 0.714393 | 9.992057 | 30 | |
| | 40 | 9.277773 | 109 | 9.285720 | 113 | 0.714280 | 9.992053 | 20 | |
| | 50 | 9.277882 | 109 | 9.285833 | 114 | 0.714167 | 9.992049 | 10 | |
| 56 | 0 | 9.277991 | 109 | 9.285947 | 113 | 0.714053 | 9.992044 | 0 | 4 |
| | 10 | 9.278100 | 109 | 9.286060 | 113 | 0.713940 | 9.992040 | 50 | |
| | 20 | 9.278209 | 109 | 9.286173 | 113 | 0.713827 | 9.992036 | 40 | |
| | 30 | 9.278318 | 109 | 9.286286 | 113 | 0.713714 | 9.992032 | 30 | |
| | 40 | 9.278427 | 109 | 9.286399 | 113 | 0.713601 | 9.992028 | 20 | |
| | 50 | 9.278536 | 109 | 9.286512 | 112 | 0.713488 | 9.992024 | 10 | |
| 57 | 0 | 9.278645 | 108 | 9.286624 | 113 | 0.713376 | 9.992020 | 0 | 3 |
| | 10 | 9.278753 | 109 | 9.286737 | 113 | 0.713263 | 9.992016 | 50 | |
| | 20 | 9.278862 | 109 | 9.286850 | 113 | 0.713150 | 9.992012 | 40 | |
| | 30 | 9.278971 | 109 | 9.286963 | 113 | 0.713037 | 9.992008 | 30 | |
| | 40 | 9.279080 | 108 | 9.287076 | 113 | 0.712924 | 9.992004 | 20 | |
| | 50 | 9.279188 | 109 | 9.287189 | 112 | 0.712811 | 9.992000 | 10 | |
| 58 | 0 | 9.279297 | 109 | 9.287301 | 113 | 0.712699 | 9.991996 | 0 | 2 |
| | 10 | 9.279406 | 108 | 9.287414 | 113 | 0.712586 | 9.991992 | 50 | |
| | 20 | 9.279514 | 109 | 9.287527 | 112 | 0.712473 | 9.991987 | 40 | |
| | 30 | 9.279623 | 108 | 9.287639 | 113 | 0.712361 | 9.991983 | 30 | |
| | 40 | 9.279731 | 108 | 9.287752 | 113 | 0.712248 | 9.991979 | 20 | |
| | 50 | 9.279840 | 108 | 9.287865 | 112 | 0.712135 | 9.991975 | 10 | |
| 59 | 0 | 9.279948 | 109 | 9.287977 | 113 | 0.712023 | 9.991971 | 0 | 1 |
| | 10 | 9.280057 | 108 | 9.288090 | 113 | 0.711910 | 9.991967 | 50 | |
| | 20 | 9.280165 | 109 | 9.288202 | 113 | 0.711798 | 9.991963 | 40 | |
| | 30 | 9.280274 | 108 | 9.288315 | 113 | 0.711685 | 9.991959 | 30 | |
| | 40 | 9.280382 | 108 | 9.288427 | 112 | 0.711573 | 9.991955 | 20 | |
| | 50 | 9.280491 | 109 | 9.288540 | 113 | 0.711460 | 9.991951 | 10 | |
| 60 | 0 | 9.280599 | 108 | 9.288652 | 112 | 0.711348 | 9.991947 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | " | ' |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 0 | 0 | 9.280599 | 108 | 9.288652 | 113 | 0.711348 | 9.991947 | 0 | 60 |
| | 10 | 9.280707 | 108 | 9.288765 | 112 | 0.711235 | 9.991942 | 50 | |
| | 20 | 9.280815 | 109 | 9.288877 | 112 | 0.711123 | 9.991938 | 40 | |
| | 30 | 9.280924 | 108 | 9.288989 | 112 | 0.711011 | 9.991934 | 30 | |
| | 40 | 9.281032 | 108 | 9.289102 | 112 | 0.710898 | 9.991930 | 20 | |
| | 50 | 9.281140 | 108 | 9.289214 | 112 | 0.710786 | 9.991926 | 10 | |
| 1 | 0 | 9.281248 | 108 | 9.289326 | 112 | 0.710674 | 9.991922 | 0 | 59 |
| | 10 | 9.281356 | 109 | 9.289438 | 112 | 0.710562 | 9.991918 | 50 | |
| | 20 | 9.281465 | 108 | 9.289551 | 113 | 0.710449 | 9.991914 | 40 | |
| | 30 | 9.281573 | 108 | 9.289663 | 112 | 0.710337 | 9.991910 | 30 | |
| | 40 | 9.281681 | 108 | 9.289775 | 112 | 0.710225 | 9.991906 | 20 | |
| | 50 | 9.281789 | 108 | 9.289887 | 112 | 0.710113 | 9.991901 | 10 | |
| 2 | 0 | 9.281897 | 108 | 9.289999 | 112 | 0.710001 | 9.991897 | 0 | 58 |
| | 10 | 9.282005 | 108 | 9.290111 | 112 | 0.709889 | 9.991893 | 50 | |
| | 20 | 9.282113 | 107 | 9.290223 | 112 | 0.709777 | 9.991889 | 40 | |
| | 30 | 9.282220 | 108 | 9.290335 | 112 | 0.709665 | 9.991885 | 30 | |
| | 40 | 9.282328 | 108 | 9.290447 | 112 | 0.709553 | 9.991881 | 20 | |
| | 50 | 9.282436 | 108 | 9.290559 | 112 | 0.709441 | 9.991877 | 10 | |
| 3 | 0 | 9.282544 | 108 | 9.290671 | 112 | 0.709329 | 9.991873 | 0 | 57 |
| | 10 | 9.282652 | 108 | 9.290783 | 112 | 0.709217 | 9.991869 | 50 | |
| | 20 | 9.282760 | 107 | 9.290895 | 112 | 0.709105 | 9.991865 | 40 | |
| | 30 | 9.282867 | 108 | 9.291007 | 112 | 0.708993 | 9.991860 | 30 | |
| | 40 | 9.282975 | 108 | 9.291119 | 112 | 0.708881 | 9.991856 | 20 | |
| | 50 | 9.283083 | 107 | 9.291231 | 111 | 0.708769 | 9.991852 | 10 | |
| 4 | 0 | 9.283190 | 108 | 9.291342 | 112 | 0.708657 | 9.991848 | 0 | 56 |
| | 10 | 9.283298 | 108 | 9.291454 | 112 | 0.708545 | 9.991844 | 50 | |
| | 20 | 9.283406 | 107 | 9.291566 | 112 | 0.708434 | 9.991840 | 40 | |
| | 30 | 9.283513 | 108 | 9.291678 | 112 | 0.708322 | 9.991836 | 30 | |
| | 40 | 9.283621 | 107 | 9.291789 | 111 | 0.708211 | 9.991832 | 20 | |
| | 50 | 9.283728 | 108 | 9.291901 | 112 | 0.708099 | 9.991827 | 10 | |
| 5 | 0 | 9.283836 | 107 | 9.292013 | 111 | 0.707987 | 9.991823 | 0 | 55 |
| | 10 | 9.283943 | 108 | 9.292124 | 112 | 0.707876 | 9.991819 | 50 | |
| | 20 | 9.284051 | 107 | 9.292236 | 111 | 0.707764 | 9.991815 | 40 | |
| | 30 | 9.284158 | 108 | 9.292347 | 112 | 0.707653 | 9.991811 | 30 | |
| | 40 | 9.284266 | 107 | 9.292459 | 111 | 0.707541 | 9.991807 | 20 | |
| | 50 | 9.284373 | 107 | 9.292570 | 112 | 0.707430 | 9.991803 | 10 | |
| 6 | 0 | 9.284480 | 108 | 9.292682 | 111 | 0.707318 | 9.991799 | 0 | 54 |
| | 10 | 9.284588 | 107 | 9.292793 | 112 | 0.707207 | 9.991794 | 50 | |
| | 20 | 9.284695 | 107 | 9.292905 | 111 | 0.707095 | 9.991790 | 40 | |
| | 30 | 9.284802 | 107 | 9.293016 | 111 | 0.706984 | 9.991786 | 30 | |
| | 40 | 9.284909 | 107 | 9.293127 | 112 | 0.706873 | 9.991782 | 20 | |
| | 50 | 9.285017 | 108 | 9.293239 | 111 | 0.706761 | 9.991778 | 10 | |
| 7 | 0 | 9.285124 | 107 | 9.293350 | 111 | 0.706650 | 9.991774 | 0 | 53 |
| | 10 | 9.285231 | 107 | 9.293461 | 111 | 0.706539 | 9.991770 | 50 | |
| | 20 | 9.285338 | 107 | 9.293572 | 112 | 0.706428 | 9.991765 | 40 | |
| | 30 | 9.285445 | 107 | 9.293684 | 111 | 0.706316 | 9.991761 | 30 | |
| | 40 | 9.285552 | 107 | 9.293795 | 111 | 0.706205 | 9.991757 | 20 | |
| | 50 | 9.285659 | 107 | 9.293906 | 111 | 0.706094 | 9.991753 | 10 | |
| 8 | 0 | 9.285766 | 107 | 9.294017 | 111 | 0.705983 | 9.991749 | 0 | 52 |
| | 10 | 9.285873 | 107 | 9.294128 | 111 | 0.705872 | 9.991745 | 50 | |
| | 20 | 9.285980 | 107 | 9.294239 | 111 | 0.705761 | 9.991741 | 40 | |
| | 30 | 9.286087 | 107 | 9.294351 | 112 | 0.705649 | 9.991736 | 30 | |
| | 40 | 9.286194 | 107 | 9.294462 | 111 | 0.705538 | 9.991732 | 20 | |
| | 50 | 9.286301 | 107 | 9.294573 | 111 | 0.705427 | 9.991728 | 10 | |
| 9 | 0 | 9.286408 | 106 | 9.294684 | 111 | 0.705316 | 9.991724 | 0 | 51 |
| | 10 | 9.286514 | 107 | 9.294795 | 111 | 0.705205 | 9.991720 | 50 | |
| | 20 | 9.286621 | 107 | 9.294905 | 110 | 0.705095 | 9.991716 | 40 | |
| | 30 | 9.286728 | 107 | 9.295016 | 111 | 0.704984 | 9.991712 | 30 | |
| | 40 | 9.286835 | 107 | 9.295127 | 111 | 0.704873 | 9.991707 | 20 | |
| | 50 | 9.286941 | 106 | 9.295238 | 111 | 0.704762 | 9.991703 | 10 | |
| 10 | 0 | 9.287048 | 107 | 9.295349 | 111 | 0.704651 | 9.991699 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 10 | 0 | 9.287048 | 107 | 9.295349 | 111 | 0.704651 | 9.991699 | 0 | 50 |
| | 10 | 9.287155 | 106 | 9.295460 | 111 | 0.704540 | 9.991695 | 50 | |
| | 20 | 9.287261 | 107 | 9.295571 | 110 | 0.704429 | 9.991691 | 40 | |
| | 30 | 9.287368 | 106 | 9.295681 | 111 | 0.704319 | 9.991687 | 30 | |
| | 40 | 9.287474 | 107 | 9.295792 | 111 | 0.704208 | 9.991682 | 20 | |
| | 50 | 9.287581 | 107 | 9.295903 | 110 | 0.704097 | 9.991678 | 10 | |
| 11 | 0 | 9.287688 | 106 | 9.296013 | 111 | 0.703987 | 9.991674 | 0 | 49 |
| | 10 | 9.287794 | 106 | 9.296124 | 111 | 0.703876 | 9.991670 | 50 | |
| | 20 | 9.287900 | 107 | 9.296235 | 110 | 0.703765 | 9.991666 | 40 | |
| | 30 | 9.288007 | 106 | 9.296345 | 111 | 0.703655 | 9.991662 | 30 | |
| | 40 | 9.288113 | 107 | 9.296456 | 110 | 0.703544 | 9.991657 | 20 | |
| | 50 | 9.288220 | 106 | 9.296566 | 111 | 0.703434 | 9.991653 | 10 | |
| 12 | 0 | 9.288326 | 106 | 9.296677 | 110 | 0.703323 | 9.991649 | 0 | 48 |
| | 10 | 9.288432 | 107 | 9.296787 | 111 | 0.703213 | 9.991645 | 50 | |
| | 20 | 9.288539 | 106 | 9.296898 | 110 | 0.703102 | 9.991641 | 40 | |
| | 30 | 9.288645 | 106 | 9.297008 | 111 | 0.702992 | 9.991637 | 30 | |
| | 40 | 9.288751 | 106 | 9.297119 | 110 | 0.702881 | 9.991632 | 20 | |
| | 50 | 9.288857 | 107 | 9.297229 | 110 | 0.702771 | 9.991628 | 10 | |
| 13 | 0 | 9.288964 | 106 | 9.297339 | 111 | 0.702661 | 9.991624 | 0 | 47 |
| | 10 | 9.289070 | 106 | 9.297450 | 110 | 0.702550 | 9.991620 | 50 | |
| | 20 | 9.289176 | 106 | 9.297560 | 110 | 0.702440 | 9.991616 | 40 | |
| | 30 | 9.289282 | 106 | 9.297670 | 111 | 0.702330 | 9.991612 | 30 | |
| | 40 | 9.289388 | 106 | 9.297781 | 110 | 0.702219 | 9.991607 | 20 | |
| | 50 | 9.289494 | 106 | 9.297891 | 110 | 0.702109 | 9.991603 | 10 | |
| 14 | 0 | 9.289600 | 106 | 9.298001 | 110 | 0.701999 | 9.991599 | 0 | 46 |
| | 10 | 9.289706 | 106 | 9.298111 | 110 | 0.701889 | 9.991595 | 50 | |
| | 20 | 9.289812 | 106 | 9.298221 | 111 | 0.701779 | 9.991591 | 40 | |
| | 30 | 9.289918 | 106 | 9.298332 | 111 | 0.701668 | 9.991586 | 30 | |
| | 40 | 9.290024 | 106 | 9.298442 | 110 | 0.701558 | 9.991582 | 20 | |
| | 50 | 9.290130 | 106 | 9.298552 | 110 | 0.701448 | 9.991578 | 10 | |
| 15 | 0 | 9.290236 | 106 | 9.298662 | 110 | 0.701338 | 9.991574 | 0 | 45 |
| | 10 | 9.290342 | 105 | 9.298772 | 110 | 0.701228 | 9.991570 | 50 | |
| | 20 | 9.290447 | 106 | 9.298882 | 110 | 0.701118 | 9.991566 | 40 | |
| | 30 | 9.290553 | 106 | 9.298992 | 110 | 0.701008 | 9.991561 | 30 | |
| | 40 | 9.290659 | 106 | 9.299102 | 110 | 0.700898 | 9.991557 | 20 | |
| | 50 | 9.290765 | 105 | 9.299212 | 110 | 0.700788 | 9.991553 | 10 | |
| 16 | 0 | 9.290870 | 105 | 9.299322 | 109 | 0.700678 | 9.991549 | 0 | 44 |
| | 10 | 9.290976 | 106 | 9.299431 | 110 | 0.700569 | 9.991545 | 50 | |
| | 20 | 9.291082 | 105 | 9.299541 | 110 | 0.700459 | 9.991540 | 40 | |
| | 30 | 9.291187 | 105 | 9.299651 | 110 | 0.700349 | 9.991536 | 30 | |
| | 40 | 9.291293 | 106 | 9.299761 | 110 | 0.700239 | 9.991532 | 20 | |
| | 50 | 9.291398 | 105 | 9.299871 | 110 | 0.700129 | 9.991528 | 10 | |
| 17 | 0 | 9.291504 | 106 | 9.299980 | 110 | 0.700020 | 9.991524 | 0 | 43 |
| | 10 | 9.291610 | 105 | 9.300090 | 110 | 0.699910 | 9.991519 | 50 | |
| | 20 | 9.291715 | 105 | 9.300200 | 110 | 0.699800 | 9.991515 | 40 | |
| | 30 | 9.291820 | 105 | 9.300309 | 109 | 0.699691 | 9.991511 | 30 | |
| | 40 | 9.291926 | 106 | 9.300419 | 110 | 0.699581 | 9.991507 | 20 | |
| | 50 | 9.292031 | 105 | 9.300529 | 110 | 0.699471 | 9.991503 | 10 | |
| 18 | 0 | 9.292137 | 106 | 9.300638 | 109 | 0.699362 | 9.991498 | 0 | 42 |
| | 10 | 9.292242 | 105 | 9.300748 | 110 | 0.699252 | 9.991494 | 50 | |
| | 20 | 9.292347 | 105 | 9.300857 | 109 | 0.699143 | 9.991490 | 40 | |
| | 30 | 9.292453 | 106 | 9.300967 | 110 | 0.699033 | 9.991486 | 30 | |
| | 40 | 9.292558 | 105 | 9.301076 | 109 | 0.698924 | 9.991482 | 20 | |
| | 50 | 9.292663 | 105 | 9.301186 | 110 | 0.698814 | 9.991477 | 10 | |
| 19 | 0 | 9.292768 | 105 | 9.301295 | 109 | 0.698705 | 9.991473 | 0 | 41 |
| | 10 | 9.292874 | 106 | 9.301405 | 110 | 0.698595 | 9.991469 | 50 | |
| | 20 | 9.292979 | 105 | 9.301514 | 109 | 0.698486 | 9.991465 | 40 | |
| | 30 | 9.293084 | 105 | 9.301624 | 110 | 0.698376 | 9.991460 | 30 | |
| | 40 | 9.293189 | 105 | 9.301733 | 109 | 0.698267 | 9.991456 | 20 | |
| | 50 | 9.293294 | 105 | 9.301842 | 109 | 0.698158 | 9.991452 | 10 | |
| 20 | 0 | 9.293399 | 105 | 9.301951 | 109 | 0.698049 | 9.991448 | 0 | 40 |

109
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| | ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | " | ' |
|--|----|----|----------|-----|----------|------|----------|----------|----|----|
| 110 111.0 222.0 333.0 444.0 555.0 666.0 777.0 888.0 999.0 | 20 | 0 | 9.293399 | 105 | 9.301951 | 110 | 0.698049 | 9.991448 | 0 | 40 |
| | | 10 | 9.293504 | 105 | 9.302061 | 109 | 0.697939 | 9.991444 | 50 | |
| | | 20 | 9.293609 | 105 | 9.302170 | 109 | 0.697830 | 9.991439 | 40 | |
| | | 30 | 9.293714 | 105 | 9.302279 | 109 | 0.697721 | 9.991435 | 30 | |
| | | 40 | 9.293819 | 105 | 9.302388 | 109 | 0.697612 | 9.991431 | 20 | |
| 109 110.9 221.8 332.7 443.6 554.5 665.4 776.3 887.2 998.1 | 21 | 0 | 9.294029 | 105 | 9.302607 | 110 | 0.697393 | 9.991422 | 0 | 39 |
| | | 10 | 9.294134 | 105 | 9.302716 | 109 | 0.697284 | 9.991418 | 50 | |
| | | 20 | 9.294239 | 105 | 9.302825 | 109 | 0.697175 | 9.991414 | 40 | |
| | | 30 | 9.294344 | 105 | 9.302934 | 109 | 0.697066 | 9.991410 | 30 | |
| | | 40 | 9.294448 | 104 | 9.303043 | 109 | 0.696957 | 9.991406 | 20 | |
| 22 23 24 25 26 27 28 29 30 | 22 | 0 | 9.294553 | 105 | 9.303152 | 109 | 0.696848 | 9.991401 | 10 | |
| | | 10 | 9.294658 | 105 | 9.303261 | 109 | 0.696739 | 9.991397 | 0 | 38 |
| | | 20 | 9.294763 | 104 | 9.303370 | 109 | 0.696630 | 9.991393 | 50 | |
| | | 30 | 9.294867 | 105 | 9.303479 | 109 | 0.696521 | 9.991389 | 40 | |
| | | 40 | 9.294972 | 105 | 9.303588 | 109 | 0.696412 | 9.991384 | 30 | |
| 108 110.8 221.6 332.4 443.2 554.0 664.8 775.6 886.4 997.2 | 23 | 0 | 9.295077 | 104 | 9.303697 | 108 | 0.696303 | 9.991380 | 20 | |
| | | 10 | 9.295181 | 105 | 9.303805 | 109 | 0.696195 | 9.991376 | 10 | |
| | | 20 | 9.295286 | 105 | 9.303914 | 109 | 0.696086 | 9.991372 | 0 | 37 |
| | | 30 | 9.295391 | 104 | 9.304023 | 109 | 0.695977 | 9.991367 | 50 | |
| | | 40 | 9.295495 | 105 | 9.304132 | 109 | 0.695868 | 9.991363 | 40 | |
| 107 110.7 221.4 332.1 442.8 553.5 664.2 774.9 885.6 996.3 | 24 | 0 | 9.295600 | 104 | 9.304241 | 108 | 0.695759 | 9.991359 | 30 | |
| | | 10 | 9.295704 | 105 | 9.304349 | 109 | 0.695651 | 9.991355 | 20 | |
| | | 20 | 9.295809 | 104 | 9.304458 | 109 | 0.695542 | 9.991350 | 10 | |
| | | 30 | 9.295913 | 104 | 9.304567 | 108 | 0.695433 | 9.991346 | 0 | 36 |
| | | 40 | 9.296017 | 105 | 9.304675 | 109 | 0.695325 | 9.991342 | 50 | |
| 106 110.6 221.2 331.8 442.4 553.0 663.6 774.2 884.8 995.4 | 25 | 0 | 9.296122 | 104 | 9.304784 | 109 | 0.695216 | 9.991338 | 40 | |
| | | 10 | 9.296226 | 105 | 9.304893 | 108 | 0.695107 | 9.991333 | 30 | |
| | | 20 | 9.296330 | 104 | 9.305001 | 108 | 0.694999 | 9.991329 | 20 | |
| | | 30 | 9.296435 | 105 | 9.305110 | 109 | 0.694890 | 9.991325 | 10 | |
| | | 40 | 9.296539 | 104 | 9.305218 | 109 | 0.694782 | 9.991321 | 0 | 35 |
| 105 110.5 221.0 331.4 442.0 552.6 663.2 773.8 884.4 995.0 | 26 | 0 | 9.296643 | 104 | 9.305327 | 108 | 0.694673 | 9.991316 | 50 | |
| | | 10 | 9.296747 | 105 | 9.305435 | 109 | 0.694565 | 9.991312 | 40 | |
| | | 20 | 9.296852 | 105 | 9.305544 | 109 | 0.694456 | 9.991308 | 30 | |
| | | 30 | 9.296956 | 104 | 9.305652 | 109 | 0.694348 | 9.991304 | 20 | |
| | | 40 | 9.297060 | 104 | 9.305761 | 108 | 0.694239 | 9.991299 | 10 | |
| 104 110.4 220.8 331.0 441.6 552.2 662.8 773.4 884.0 994.6 | 27 | 0 | 9.297164 | 104 | 9.305869 | 108 | 0.694131 | 9.991295 | 0 | 34 |
| | | 10 | 9.297268 | 104 | 9.305977 | 109 | 0.694023 | 9.991291 | 50 | |
| | | 20 | 9.297372 | 104 | 9.306086 | 108 | 0.693914 | 9.991287 | 40 | |
| | | 30 | 9.297476 | 104 | 9.306194 | 108 | 0.693806 | 9.991282 | 30 | |
| | | 40 | 9.297580 | 104 | 9.306302 | 108 | 0.693698 | 9.991278 | 20 | |
| 103 110.3 220.6 330.8 441.2 551.8 662.4 773.0 883.6 994.2 | 28 | 0 | 9.297684 | 104 | 9.306410 | 109 | 0.693590 | 9.991274 | 10 | |
| | | 10 | 9.297788 | 104 | 9.306519 | 108 | 0.693481 | 9.991270 | 0 | 33 |
| | | 20 | 9.297892 | 104 | 9.306627 | 108 | 0.693373 | 9.991265 | 50 | |
| | | 30 | 9.297996 | 104 | 9.306735 | 108 | 0.693265 | 9.991261 | 40 | |
| | | 40 | 9.298100 | 104 | 9.306843 | 108 | 0.693157 | 9.991257 | 30 | |
| 102 110.2 220.4 330.6 441.0 551.4 662.0 772.6 883.2 993.8 | 29 | 0 | 9.298204 | 104 | 9.306951 | 108 | 0.693049 | 9.991253 | 20 | |
| | | 10 | 9.298308 | 104 | 9.307059 | 109 | 0.692941 | 9.991248 | 10 | |
| | | 20 | 9.298412 | 103 | 9.307168 | 108 | 0.692832 | 9.991244 | 0 | 32 |
| | | 30 | 9.298515 | 104 | 9.307276 | 108 | 0.692724 | 9.991240 | 50 | |
| | | 40 | 9.298619 | 104 | 9.307384 | 108 | 0.692616 | 9.991235 | 40 | |
| 101 110.1 220.2 330.4 440.8 550.8 661.4 772.0 882.6 993.2 | 30 | 0 | 9.298723 | 104 | 9.307492 | 108 | 0.692508 | 9.991231 | 30 | |
| | | 10 | 9.298827 | 104 | 9.307600 | 108 | 0.692400 | 9.991227 | 20 | |
| | | 20 | 9.298930 | 103 | 9.307708 | 108 | 0.692292 | 9.991223 | 10 | |
| | | 30 | 9.299034 | 104 | 9.307816 | 108 | 0.692184 | 9.991218 | 0 | 31 |
| | | 40 | 9.299138 | 104 | 9.307923 | 107 | 0.692077 | 9.991214 | 50 | |
| 100 110.0 220.0 330.0 440.0 550.0 660.0 770.0 880.0 990.0 | 31 | 0 | 9.299241 | 103 | 9.308031 | 108 | 0.691969 | 9.991210 | 40 | |
| | | 10 | 9.299345 | 104 | 9.308139 | 108 | 0.691861 | 9.991206 | 30 | |
| | | 20 | 9.299448 | 103 | 9.308247 | 108 | 0.691753 | 9.991201 | 20 | |
| | | 30 | 9.299552 | 104 | 9.308355 | 108 | 0.691645 | 9.991197 | 10 | |
| | | 40 | 9.299655 | 103 | 9.308463 | 108 | 0.691537 | 9.991193 | 0 | 30 |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 30 | 0 | 9.299655 | 104 | 9.308463 | 107 | 0.691537 | 9.991193 | 0 | 30 |
| | 10 | 9.299759 | 103 | 9.308570 | 108 | 0.691430 | 9.991188 | 50 | |
| | 20 | 9.299866 | 104 | 9.308678 | 108 | 0.691322 | 9.991184 | 40 | |
| | 30 | 9.299962 | 103 | 9.308786 | 107 | 0.691214 | 9.991180 | 30 | |
| | 40 | 9.300069 | 103 | 9.308893 | 108 | 0.691107 | 9.991176 | 20 | |
| | 50 | 9.300172 | 104 | 9.309001 | 108 | 0.690999 | 9.991171 | 10 | |
| 31 | 0 | 9.300276 | 103 | 9.309109 | 107 | 0.690891 | 9.991167 | 0 | 29 |
| | 10 | 9.300379 | 103 | 9.309216 | 108 | 0.690784 | 9.991163 | 50 | |
| | 20 | 9.300482 | 104 | 9.309324 | 108 | 0.690676 | 9.991158 | 40 | |
| | 30 | 9.300586 | 103 | 9.309432 | 107 | 0.690568 | 9.991154 | 30 | |
| | 40 | 9.300689 | 103 | 9.309539 | 108 | 0.690461 | 9.991150 | 20 | |
| | 50 | 9.300792 | 103 | 9.309647 | 107 | 0.690353 | 9.991146 | 10 | |
| 32 | 0 | 9.300895 | 104 | 9.309754 | 108 | 0.690246 | 9.991141 | 0 | 28 |
| | 10 | 9.300999 | 103 | 9.309862 | 107 | 0.690138 | 9.991137 | 50 | |
| | 20 | 9.301102 | 103 | 9.309969 | 107 | 0.690031 | 9.991133 | 40 | |
| | 30 | 9.301205 | 103 | 9.310076 | 108 | 0.689924 | 9.991128 | 30 | |
| | 40 | 9.301308 | 103 | 9.310184 | 107 | 0.689816 | 9.991124 | 20 | |
| | 50 | 9.301411 | 103 | 9.310291 | 108 | 0.689709 | 9.991120 | 10 | |
| 33 | 0 | 9.301514 | 103 | 9.310399 | 107 | 0.689601 | 9.991115 | 0 | 27 |
| | 10 | 9.301617 | 103 | 9.310506 | 107 | 0.689494 | 9.991111 | 50 | |
| | 20 | 9.301720 | 103 | 9.310613 | 107 | 0.689387 | 9.991107 | 40 | |
| | 30 | 9.301823 | 103 | 9.310720 | 108 | 0.689280 | 9.991103 | 30 | |
| | 40 | 9.301926 | 103 | 9.310828 | 107 | 0.689172 | 9.991098 | 20 | |
| | 50 | 9.302029 | 103 | 9.310935 | 107 | 0.689065 | 9.991094 | 10 | |
| 34 | 0 | 9.302132 | 103 | 9.311042 | 107 | 0.688958 | 9.991090 | 0 | 26 |
| | 10 | 9.302235 | 102 | 9.311149 | 107 | 0.688851 | 9.991085 | 50 | |
| | 20 | 9.302337 | 103 | 9.311256 | 108 | 0.688744 | 9.991081 | 40 | |
| | 30 | 9.302440 | 103 | 9.311364 | 107 | 0.688636 | 9.991077 | 30 | |
| | 40 | 9.302543 | 103 | 9.311471 | 107 | 0.688529 | 9.991072 | 20 | |
| | 50 | 9.302646 | 102 | 9.311578 | 107 | 0.688422 | 9.991068 | 10 | |
| 35 | 0 | 9.302748 | 103 | 9.311685 | 107 | 0.688315 | 9.991064 | 0 | 25 |
| | 10 | 9.302851 | 103 | 9.311792 | 107 | 0.688208 | 9.991059 | 50 | |
| | 20 | 9.302954 | 103 | 9.311899 | 107 | 0.688101 | 9.991055 | 40 | |
| | 30 | 9.303057 | 102 | 9.312006 | 107 | 0.687994 | 9.991051 | 30 | |
| | 40 | 9.303159 | 103 | 9.312113 | 107 | 0.687887 | 9.991046 | 20 | |
| | 50 | 9.303262 | 102 | 9.312220 | 107 | 0.687780 | 9.991042 | 10 | |
| 36 | 0 | 9.303364 | 103 | 9.312327 | 106 | 0.687673 | 9.991038 | 0 | 24 |
| | 10 | 9.303467 | 102 | 9.312433 | 107 | 0.687567 | 9.991033 | 50 | |
| | 20 | 9.303569 | 103 | 9.312540 | 107 | 0.687460 | 9.991029 | 40 | |
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| | 40 | 9.303774 | 102 | 9.312754 | 107 | 0.687246 | 9.991021 | 20 | |
| | 50 | 9.303877 | 102 | 9.312861 | 107 | 0.687139 | 9.991016 | 10 | |
| 37 | 0 | 9.303979 | 103 | 9.312968 | 106 | 0.687032 | 9.991012 | 0 | 23 |
| | 10 | 9.304082 | 102 | 9.313074 | 107 | 0.686926 | 9.991008 | 50 | |
| | 20 | 9.304184 | 103 | 9.313181 | 107 | 0.686819 | 9.991003 | 40 | |
| | 30 | 9.304287 | 102 | 9.313288 | 106 | 0.686712 | 9.990999 | 30 | |
| | 40 | 9.304389 | 102 | 9.313394 | 107 | 0.686606 | 9.990995 | 20 | |
| | 50 | 9.304491 | 102 | 9.313501 | 107 | 0.686499 | 9.990990 | 10 | |
| 38 | 0 | 9.304593 | 103 | 9.313608 | 106 | 0.686392 | 9.990986 | 0 | 22 |
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| | 20 | 9.304798 | 102 | 9.313821 | 106 | 0.686179 | 9.990977 | 40 | |
| | 30 | 9.304900 | 102 | 9.313927 | 107 | 0.686073 | 9.990973 | 30 | |
| | 40 | 9.305002 | 102 | 9.314034 | 106 | 0.685966 | 9.990969 | 20 | |
| | 50 | 9.305104 | 103 | 9.314140 | 107 | 0.685860 | 9.990964 | 10 | |
| 39 | 0 | 9.305207 | 102 | 9.314247 | 106 | 0.685753 | 9.990960 | 0 | 21 |
| | 10 | 9.305309 | 102 | 9.314353 | 107 | 0.685647 | 9.990955 | 50 | |
| | 20 | 9.305411 | 102 | 9.314460 | 106 | 0.685540 | 9.990951 | 40 | |
| | 30 | 9.305513 | 102 | 9.314566 | 106 | 0.685434 | 9.990947 | 30 | |
| | 40 | 9.305615 | 102 | 9.314672 | 107 | 0.685328 | 9.990942 | 20 | |
| | 50 | 9.305717 | 102 | 9.314779 | 106 | 0.685221 | 9.990938 | 10 | |
| 40 | 0 | 9.305819 | 102 | 9.314885 | 106 | 0.685115 | 9.990934 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|
| 40 | 0 | 9.305819 | 102 | 9.314885 | 106 | 0.685115 | 9.990934 | 0 | 20 |
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| | 20 | 9.306023 | 102 | 9.315098 | 106 | 0.684902 | 9.990925 | 40 | |
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| | 40 | 9.306227 | 101 | 9.315310 | 106 | 0.684690 | 9.990916 | 20 | |
| | 50 | 9.306328 | 102 | 9.315416 | 107 | 0.684584 | 9.990912 | 10 | |
| 41 | 0 | 9.306430 | 102 | 9.315523 | 106 | 0.684477 | 9.990908 | 0 | 19 |
| | 10 | 9.306532 | 102 | 9.315629 | 106 | 0.684371 | 9.990903 | 50 | |
| | 20 | 9.306634 | 102 | 9.315735 | 106 | 0.684265 | 9.990899 | 40 | |
| | 30 | 9.306736 | 101 | 9.315841 | 106 | 0.684159 | 9.990895 | 30 | |
| | 40 | 9.306837 | 102 | 9.315947 | 106 | 0.684053 | 9.990890 | 20 | |
| | 50 | 9.306939 | 102 | 9.316053 | 106 | 0.683947 | 9.990886 | 10 | |
| 42 | 0 | 9.307041 | 101 | 9.316159 | 106 | 0.683841 | 9.990882 | 0 | 18 |
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| | 20 | 9.307244 | 102 | 9.316371 | 106 | 0.683629 | 9.990873 | 40 | |
| | 30 | 9.307346 | 101 | 9.316477 | 106 | 0.683523 | 9.990868 | 30 | |
| | 40 | 9.307447 | 102 | 9.316583 | 106 | 0.683417 | 9.990864 | 20 | |
| | 50 | 9.307549 | 102 | 9.316689 | 106 | 0.683311 | 9.990860 | 10 | |
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| | 10 | 9.307752 | 101 | 9.316901 | 106 | 0.683099 | 9.990851 | 50 | |
| | 20 | 9.307853 | 102 | 9.317007 | 106 | 0.682993 | 9.990847 | 40 | |
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| | 40 | 9.308056 | 102 | 9.317218 | 106 | 0.682782 | 9.990838 | 20 | |
| | 50 | 9.308158 | 102 | 9.317324 | 106 | 0.682676 | 9.990833 | 10 | |
| 44 | 0 | 9.308259 | 101 | 9.317430 | 106 | 0.682570 | 9.990829 | 0 | 16 |
| | 10 | 9.308360 | 102 | 9.317536 | 105 | 0.682464 | 9.990825 | 50 | |
| | 20 | 9.308462 | 101 | 9.317641 | 106 | 0.682359 | 9.990820 | 40 | |
| | 30 | 9.308563 | 101 | 9.317747 | 106 | 0.682253 | 9.990816 | 30 | |
| | 40 | 9.308664 | 102 | 9.317853 | 105 | 0.682147 | 9.990812 | 20 | |
| | 50 | 9.308766 | 101 | 9.317958 | 106 | 0.682042 | 9.990807 | 10 | |
| 45 | 0 | 9.308867 | 101 | 9.318064 | 106 | 0.681936 | 9.990803 | 0 | 15 |
| | 10 | 9.308968 | 101 | 9.318170 | 105 | 0.681830 | 9.990798 | 50 | |
| | 20 | 9.309069 | 101 | 9.318275 | 106 | 0.681725 | 9.990794 | 40 | |
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| | 50 | 9.309373 | 101 | 9.318592 | 105 | 0.681408 | 9.990781 | 10 | |
| 46 | 0 | 9.309474 | 101 | 9.318697 | 106 | 0.681303 | 9.990777 | 0 | 14 |
| | 10 | 9.309575 | 101 | 9.318803 | 105 | 0.681197 | 9.990772 | 50 | |
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| | 50 | 9.309979 | 101 | 9.319224 | 105 | 0.680776 | 9.990755 | 10 | |
| 47 | 0 | 9.310080 | 101 | 9.319330 | 105 | 0.680670 | 9.990750 | 0 | 13 |
| | 10 | 9.310181 | 101 | 9.319435 | 105 | 0.680565 | 9.990746 | 50 | |
| | 20 | 9.310282 | 100 | 9.319540 | 105 | 0.680460 | 9.990741 | 40 | |
| | 30 | 9.310382 | 101 | 9.319645 | 105 | 0.680355 | 9.990737 | 30 | |
| | 40 | 9.310483 | 101 | 9.319751 | 105 | 0.680249 | 9.990733 | 20 | |
| | 50 | 9.310584 | 101 | 9.319856 | 105 | 0.680144 | 9.990728 | 10 | |
| 48 | 0 | 9.310685 | 101 | 9.319961 | 105 | 0.680039 | 9.990724 | 0 | 12 |
| | 10 | 9.310786 | 100 | 9.320066 | 105 | 0.679934 | 9.990719 | 50 | |
| | 20 | 9.310886 | 101 | 9.320171 | 106 | 0.679829 | 9.990715 | 40 | |
| | 30 | 9.310987 | 101 | 9.320277 | 105 | 0.679723 | 9.990711 | 30 | |
| | 40 | 9.311088 | 101 | 9.320382 | 105 | 0.679618 | 9.990706 | 20 | |
| | 50 | 9.311189 | 100 | 9.320487 | 105 | 0.679513 | 9.990702 | 10 | |
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| | 20 | 9.311490 | 101 | 9.320802 | 105 | 0.679198 | 9.990689 | 40 | |
| | 30 | 9.311591 | 101 | 9.320907 | 105 | 0.679093 | 9.990684 | 30 | |
| | 40 | 9.311692 | 101 | 9.321012 | 105 | 0.678988 | 9.990680 | 20 | |
| | 50 | 9.311792 | 100 | 9.321117 | 105 | 0.678883 | 9.990675 | 10 | |
| 50 | 0 | 9.311893 | 101 | 9.321222 | 105 | 0.678778 | 9.990671 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|-----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.311893 | 100 | 9.321222 | 104 | 0.678778 | 9.990671 | 4 | 0 | 10 |
| | 10 | 9.311993 | 101 | 9.321326 | 105 | 0.678674 | 9.990667 | 5 | 50 | |
| | 20 | 9.312094 | 100 | 9.321431 | 105 | 0.678569 | 9.990662 | 5 | 40 | |
| | 30 | 9.312194 | 100 | 9.321536 | 105 | 0.678464 | 9.990658 | 4 | 30 | |
| | 40 | 9.312294 | 101 | 9.321641 | 105 | 0.678359 | 9.990653 | 5 | 20 | |
| | 50 | 9.312395 | 100 | 9.321746 | 105 | 0.678254 | 9.990649 | 4 | 10 | |
| 51 | 0 | 9.312495 | 100 | 9.321851 | 104 | 0.678149 | 9.990645 | 5 | 0 | 9 |
| | 10 | 9.312595 | 101 | 9.321955 | 105 | 0.678045 | 9.990640 | 5 | 50 | |
| | 20 | 9.312696 | 100 | 9.322060 | 105 | 0.677940 | 9.990636 | 4 | 40 | |
| | 30 | 9.312796 | 100 | 9.322165 | 105 | 0.677835 | 9.990631 | 5 | 30 | |
| | 40 | 9.312896 | 101 | 9.322269 | 104 | 0.677731 | 9.990627 | 4 | 20 | |
| | 50 | 9.312997 | 100 | 9.322374 | 105 | 0.677626 | 9.990622 | 5 | 10 | |
| 52 | 0 | 9.313097 | 100 | 9.322479 | 104 | 0.677521 | 9.990618 | 4 | 0 | 8 |
| | 10 | 9.313197 | 100 | 9.322583 | 105 | 0.677417 | 9.990614 | 5 | 50 | |
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| | 50 | 9.313597 | 101 | 9.323002 | 105 | 0.676998 | 9.990596 | 5 | 10 | |
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| | 20 | 9.313898 | 100 | 9.323315 | 104 | 0.676685 | 9.990583 | 4 | 40 | |
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| | 40 | 9.314098 | 100 | 9.323524 | 104 | 0.676476 | 9.990574 | 4 | 20 | |
| | 50 | 9.314198 | 100 | 9.323628 | 105 | 0.676372 | 9.990569 | 5 | 10 | |
| 54 | 0 | 9.314297 | 99 | 9.323733 | 104 | 0.676267 | 9.990565 | 4 | 0 | 6 |
| | 10 | 9.314397 | 100 | 9.323837 | 105 | 0.676163 | 9.990560 | 5 | 50 | |
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| | 50 | 9.314797 | 100 | 9.324254 | 105 | 0.675746 | 9.990543 | 5 | 10 | |
| 55 | 0 | 9.314897 | 99 | 9.324358 | 104 | 0.675642 | 9.990538 | 4 | 0 | 5 |
| | 10 | 9.314996 | 100 | 9.324463 | 105 | 0.675537 | 9.990534 | 5 | 50 | |
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| | 50 | 9.315395 | 100 | 9.324879 | 105 | 0.675121 | 9.990516 | 5 | 10 | |
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| | 20 | 9.315694 | 100 | 9.325191 | 104 | 0.674809 | 9.990503 | 4 | 40 | |
| | 30 | 9.315793 | 99 | 9.325295 | 105 | 0.674705 | 9.990498 | 5 | 30 | |
| | 40 | 9.315893 | 100 | 9.325399 | 104 | 0.674601 | 9.990494 | 4 | 20 | |
| | 50 | 9.315992 | 100 | 9.325503 | 105 | 0.674497 | 9.990489 | 5 | 10 | |
| 57 | 0 | 9.316092 | 99 | 9.325607 | 104 | 0.674393 | 9.990485 | 4 | 0 | 3 |
| | 10 | 9.316192 | 100 | 9.325711 | 105 | 0.674289 | 9.990480 | 5 | 50 | |
| | 20 | 9.316291 | 99 | 9.325815 | 104 | 0.674185 | 9.990476 | 4 | 40 | |
| | 30 | 9.316390 | 99 | 9.325919 | 105 | 0.674081 | 9.990471 | 5 | 30 | |
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| | 50 | 9.316589 | 99 | 9.326127 | 105 | 0.673873 | 9.990462 | 5 | 10 | |
| 58 | 0 | 9.316688 | 99 | 9.326231 | 104 | 0.673769 | 9.990458 | 4 | 0 | 2 |
| | 10 | 9.316788 | 99 | 9.326334 | 103 | 0.673666 | 9.990454 | 5 | 50 | |
| | 20 | 9.316887 | 99 | 9.326438 | 104 | 0.673562 | 9.990449 | 4 | 40 | |
| | 30 | 9.316986 | 99 | 9.326542 | 104 | 0.673458 | 9.990445 | 5 | 30 | |
| | 40 | 9.317086 | 100 | 9.326646 | 103 | 0.673354 | 9.990440 | 4 | 20 | |
| | 50 | 9.317185 | 99 | 9.326749 | 104 | 0.673251 | 9.990436 | 5 | 10 | |
| 59 | 0 | 9.317284 | 99 | 9.326853 | 103 | 0.673147 | 9.990432 | 4 | 0 | 1 |
| | 10 | 9.317383 | 99 | 9.326957 | 104 | 0.673043 | 9.990428 | 5 | 50 | |
| | 20 | 9.317482 | 99 | 9.327060 | 103 | 0.672940 | 9.990422 | 4 | 40 | |
| | 30 | 9.317582 | 99 | 9.327164 | 104 | 0.672836 | 9.990418 | 5 | 30 | |
| | 40 | 9.317681 | 99 | 9.327267 | 103 | 0.672733 | 9.990413 | 4 | 20 | |
| | 50 | 9.317780 | 99 | 9.327371 | 104 | 0.672629 | 9.990409 | 5 | 10 | |
| 60 | 0 | 9.317879 | 99 | 9.327475 | 103 | 0.672525 | 9.990404 | 4 | 0 | 0 |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.317879 | 99 | 9.327475 | 103 | 0.672525 | 9.990404 | 4 | 0 | 60 |
| | 10 | 9.317978 | 99 | 9.327578 | 104 | 0.672422 | 9.990400 | 5 | 50 | |
| | 20 | 9.318077 | 99 | 9.327682 | 103 | 0.672318 | 9.990395 | 5 | 40 | |
| | 30 | 9.318176 | 99 | 9.327785 | 103 | 0.672215 | 9.990391 | 5 | 30 | |
| | 40 | 9.318275 | 99 | 9.327888 | 103 | 0.672112 | 9.990386 | 5 | 20 | |
| | 50 | 9.318374 | 99 | 9.327992 | 104 | 0.672008 | 9.990382 | 4 | 10 | |
| 1 | 0 | 9.318473 | 99 | 9.328095 | 103 | 0.671905 | 9.990378 | 4 | 0 | 59 |
| | 10 | 9.318572 | 99 | 9.328199 | 104 | 0.671801 | 9.990373 | 5 | 50 | |
| | 20 | 9.318671 | 99 | 9.328302 | 103 | 0.671698 | 9.990369 | 4 | 40 | |
| | 30 | 9.318769 | 98 | 9.328405 | 103 | 0.671595 | 9.990364 | 5 | 30 | |
| | 40 | 9.318868 | 98 | 9.328509 | 104 | 0.671491 | 9.990360 | 4 | 20 | |
| | 50 | 9.318967 | 99 | 9.328612 | 103 | 0.671388 | 9.990355 | 5 | 10 | |
| 2 | 0 | 9.319066 | 99 | 9.328715 | 103 | 0.671285 | 9.990351 | 4 | 0 | 58 |
| | 10 | 9.319165 | 99 | 9.328819 | 104 | 0.671181 | 9.990346 | 5 | 50 | |
| | 20 | 9.319263 | 98 | 9.328922 | 103 | 0.671078 | 9.990342 | 4 | 40 | |
| | 30 | 9.319362 | 99 | 9.329025 | 103 | 0.670975 | 9.990337 | 5 | 30 | |
| | 40 | 9.319461 | 99 | 9.329128 | 103 | 0.670872 | 9.990333 | 4 | 20 | |
| | 50 | 9.319559 | 98 | 9.329231 | 103 | 0.670769 | 9.990328 | 5 | 10 | |
| 3 | 0 | 9.319658 | 99 | 9.329334 | 103 | 0.670666 | 9.990324 | 4 | 0 | 57 |
| | 10 | 9.319757 | 99 | 9.329438 | 104 | 0.670562 | 9.990319 | 5 | 50 | |
| | 20 | 9.319855 | 98 | 9.329541 | 103 | 0.670459 | 9.990315 | 4 | 40 | |
| | 30 | 9.319954 | 98 | 9.329644 | 103 | 0.670356 | 9.990310 | 5 | 30 | |
| | 40 | 9.320052 | 99 | 9.329747 | 103 | 0.670253 | 9.990306 | 4 | 20 | |
| | 50 | 9.320151 | 98 | 9.329850 | 103 | 0.670150 | 9.990301 | 5 | 10 | |
| 4 | 0 | 9.320249 | 99 | 9.329953 | 103 | 0.670047 | 9.990297 | 4 | 0 | 56 |
| | 10 | 9.320348 | 99 | 9.330056 | 103 | 0.669944 | 9.990292 | 5 | 50 | |
| | 20 | 9.320446 | 98 | 9.330159 | 103 | 0.669841 | 9.990288 | 4 | 40 | |
| | 30 | 9.320545 | 98 | 9.330262 | 103 | 0.669738 | 9.990283 | 5 | 30 | |
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| | 50 | 9.320742 | 98 | 9.330468 | 103 | 0.669532 | 9.990274 | 5 | 10 | |
| 5 | 0 | 9.320840 | 98 | 9.330570 | 102 | 0.669430 | 9.990270 | 4 | 0 | 55 |
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| | 20 | 9.321037 | 99 | 9.330776 | 103 | 0.669224 | 9.990261 | 4 | 40 | |
| | 30 | 9.321135 | 98 | 9.330879 | 103 | 0.669121 | 9.990256 | 5 | 30 | |
| | 40 | 9.321233 | 98 | 9.330982 | 103 | 0.669018 | 9.990252 | 4 | 20 | |
| | 50 | 9.321332 | 99 | 9.331084 | 102 | 0.668916 | 9.990247 | 5 | 10 | |
| 6 | 0 | 9.321430 | 98 | 9.331187 | 103 | 0.668813 | 9.990243 | 4 | 0 | 54 |
| | 10 | 9.321528 | 98 | 9.331290 | 103 | 0.668710 | 9.990238 | 5 | 50 | |
| | 20 | 9.321626 | 98 | 9.331393 | 103 | 0.668607 | 9.990234 | 4 | 40 | |
| | 30 | 9.321724 | 98 | 9.331495 | 102 | 0.668505 | 9.990229 | 5 | 30 | |
| | 40 | 9.321822 | 98 | 9.331598 | 105 | 0.668402 | 9.990225 | 4 | 20 | |
| | 50 | 9.321921 | 99 | 9.331701 | 103 | 0.668299 | 9.990220 | 5 | 10 | |
| 7 | 0 | 9.322019 | 98 | 9.331803 | 102 | 0.668197 | 9.990215 | 5 | 0 | 53 |
| | 10 | 9.322117 | 98 | 9.331906 | 103 | 0.668094 | 9.990211 | 4 | 50 | |
| | 20 | 9.322215 | 98 | 9.332008 | 102 | 0.667992 | 9.990206 | 5 | 40 | |
| | 30 | 9.322313 | 98 | 9.332111 | 103 | 0.667889 | 9.990202 | 4 | 30 | |
| | 40 | 9.322411 | 98 | 9.332213 | 102 | 0.667787 | 9.990197 | 5 | 20 | |
| | 50 | 9.322509 | 98 | 9.332316 | 103 | 0.667684 | 9.990193 | 4 | 10 | |
| 8 | 0 | 9.322607 | 98 | 9.332418 | 102 | 0.667582 | 9.990188 | 5 | 0 | 52 |
| | 10 | 9.322705 | 98 | 9.332521 | 103 | 0.667479 | 9.990184 | 4 | 50 | |
| | 20 | 9.322802 | 97 | 9.332623 | 102 | 0.667377 | 9.990179 | 5 | 40 | |
| | 30 | 9.322900 | 98 | 9.332726 | 103 | 0.667274 | 9.990175 | 4 | 30 | |
| | 40 | 9.322998 | 98 | 9.332828 | 102 | 0.667172 | 9.990170 | 5 | 20 | |
| | 50 | 9.323096 | 98 | 9.332930 | 102 | 0.667070 | 9.990166 | 4 | 10 | |
| 9 | 0 | 9.323194 | 98 | 9.333033 | 103 | 0.666968 | 9.990161 | 5 | 0 | 51 |
| | 10 | 9.323292 | 98 | 9.333135 | 102 | 0.666865 | 9.990157 | 4 | 50 | |
| | 20 | 9.323389 | 97 | 9.333237 | 102 | 0.666763 | 9.990152 | 5 | 40 | |
| | 30 | 9.323487 | 98 | 9.333340 | 103 | 0.666660 | 9.990148 | 4 | 30 | |
| | 40 | 9.323585 | 98 | 9.333442 | 102 | 0.666558 | 9.990143 | 5 | 20 | |
| | 50 | 9.323683 | 98 | 9.333544 | 102 | 0.666456 | 9.990138 | 5 | 10 | |
| 10 | 0 | 9.323780 | 97 | 9.333646 | 102 | 0.666354 | 9.990134 | 4 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.323780 | 98 | 9.333646 | 102 | 0.666354 | 9.990134 | 5 | 0 | 50 |
| | 10 | 9.323878 | 97 | 9.333748 | 103 | 0.666252 | 9.990129 | 4 | 50 | |
| | 20 | 9.323975 | 97 | 9.333851 | 102 | 0.666149 | 9.990125 | 5 | 40 | |
| | 30 | 9.324073 | 98 | 9.333953 | 102 | 0.666047 | 9.990120 | 5 | 30 | |
| | 40 | 9.324171 | 98 | 9.334055 | 102 | 0.665945 | 9.990116 | 4 | 20 | |
| | 50 | 9.324268 | 97 | 9.334157 | 102 | 0.665843 | 9.990111 | 5 | 10 | |
| 11 | 0 | 9.324366 | 98 | 9.334259 | 102 | 0.665741 | 9.990107 | 4 | 0 | 49 |
| | 10 | 9.324463 | 98 | 9.334361 | 102 | 0.665639 | 9.990102 | 5 | 50 | |
| | 20 | 9.324561 | 98 | 9.334463 | 102 | 0.665537 | 9.990098 | 4 | 40 | |
| | 30 | 9.324658 | 97 | 9.334565 | 102 | 0.665435 | 9.990093 | 5 | 30 | |
| | 40 | 9.324756 | 97 | 9.334667 | 102 | 0.665333 | 9.990088 | 5 | 20 | |
| | 50 | 9.324853 | 97 | 9.334769 | 102 | 0.665231 | 9.990084 | 4 | 10 | |
| 12 | 0 | 9.324950 | 98 | 9.334871 | 102 | 0.665129 | 9.990079 | 5 | 0 | 48 |
| | 10 | 9.325048 | 97 | 9.334973 | 102 | 0.665027 | 9.990075 | 4 | 50 | |
| | 20 | 9.325145 | 97 | 9.335075 | 102 | 0.664925 | 9.990070 | 5 | 40 | |
| | 30 | 9.325243 | 98 | 9.335177 | 102 | 0.664823 | 9.990066 | 4 | 30 | |
| | 40 | 9.325340 | 97 | 9.335279 | 101 | 0.664721 | 9.990061 | 5 | 20 | |
| | 50 | 9.325437 | 97 | 9.335380 | 102 | 0.664620 | 9.990057 | 4 | 10 | |
| 13 | 0 | 9.325534 | 98 | 9.335482 | 102 | 0.664518 | 9.990052 | 5 | 0 | 47 |
| | 10 | 9.325632 | 97 | 9.335584 | 102 | 0.664416 | 9.990048 | 4 | 50 | |
| | 20 | 9.325729 | 97 | 9.335686 | 102 | 0.664314 | 9.990043 | 5 | 40 | |
| | 30 | 9.325826 | 97 | 9.335788 | 101 | 0.664212 | 9.990038 | 5 | 30 | |
| | 40 | 9.325923 | 97 | 9.335889 | 102 | 0.664111 | 9.990034 | 4 | 20 | |
| | 50 | 9.326020 | 97 | 9.335991 | 102 | 0.664009 | 9.990029 | 5 | 10 | |
| 14 | 0 | 9.326117 | 98 | 9.336093 | 102 | 0.663907 | 9.990025 | 4 | 0 | 46 |
| | 10 | 9.326215 | 97 | 9.336194 | 102 | 0.663806 | 9.990020 | 5 | 50 | |
| | 20 | 9.326312 | 97 | 9.336296 | 102 | 0.663704 | 9.990016 | 4 | 40 | |
| | 30 | 9.326409 | 97 | 9.336398 | 101 | 0.663602 | 9.990011 | 5 | 30 | |
| | 40 | 9.326506 | 97 | 9.336499 | 102 | 0.663501 | 9.990006 | 5 | 20 | |
| | 50 | 9.326603 | 97 | 9.336601 | 101 | 0.663399 | 9.990002 | 4 | 10 | |
| 15 | 0 | 9.326700 | 97 | 9.336702 | 102 | 0.663298 | 9.989997 | 5 | 0 | 45 |
| | 10 | 9.326797 | 97 | 9.336804 | 101 | 0.663196 | 9.989993 | 4 | 50 | |
| | 20 | 9.326894 | 97 | 9.336905 | 102 | 0.663095 | 9.989988 | 5 | 40 | |
| | 30 | 9.326991 | 97 | 9.337007 | 101 | 0.662993 | 9.989984 | 4 | 30 | |
| | 40 | 9.327087 | 96 | 9.337108 | 102 | 0.662892 | 9.989979 | 5 | 20 | |
| | 50 | 9.327184 | 97 | 9.337210 | 101 | 0.662790 | 9.989974 | 5 | 10 | |
| 16 | 0 | 9.327281 | 97 | 9.337311 | 102 | 0.662689 | 9.989970 | 4 | 0 | 44 |
| | 10 | 9.327378 | 97 | 9.337413 | 101 | 0.662587 | 9.989965 | 5 | 50 | |
| | 20 | 9.327475 | 97 | 9.337514 | 101 | 0.662486 | 9.989961 | 4 | 40 | |
| | 30 | 9.327572 | 97 | 9.337615 | 101 | 0.662385 | 9.989956 | 5 | 30 | |
| | 40 | 9.327668 | 96 | 9.337717 | 102 | 0.662283 | 9.989952 | 4 | 20 | |
| | 50 | 9.327765 | 97 | 9.337818 | 101 | 0.662182 | 9.989947 | 5 | 10 | |
| 17 | 0 | 9.327862 | 97 | 9.337919 | 102 | 0.662081 | 9.989942 | 5 | 0 | 43 |
| | 10 | 9.327958 | 96 | 9.338021 | 102 | 0.661979 | 9.989938 | 4 | 50 | |
| | 20 | 9.328055 | 97 | 9.338122 | 101 | 0.661878 | 9.989933 | 5 | 40 | |
| | 30 | 9.328152 | 97 | 9.338223 | 101 | 0.661777 | 9.989929 | 4 | 30 | |
| | 40 | 9.328248 | 96 | 9.338324 | 101 | 0.661676 | 9.989924 | 5 | 20 | |
| | 50 | 9.328345 | 97 | 9.338426 | 102 | 0.661574 | 9.989919 | 5 | 10 | |
| 18 | 0 | 9.328442 | 97 | 9.338527 | 101 | 0.661473 | 9.989915 | 4 | 0 | 42 |
| | 10 | 9.328538 | 96 | 9.338628 | 101 | 0.661372 | 9.989910 | 5 | 50 | |
| | 20 | 9.328635 | 97 | 9.338729 | 101 | 0.661271 | 9.989906 | 4 | 40 | |
| | 30 | 9.328731 | 96 | 9.338830 | 101 | 0.661170 | 9.989901 | 5 | 30 | |
| | 40 | 9.328828 | 97 | 9.338931 | 101 | 0.661069 | 9.989896 | 5 | 20 | |
| | 50 | 9.328924 | 96 | 9.339032 | 101 | 0.660968 | 9.989892 | 4 | 10 | |
| 19 | 0 | 9.329021 | 97 | 9.339133 | 101 | 0.660867 | 9.989887 | 5 | 0 | 41 |
| | 10 | 9.329117 | 96 | 9.339234 | 101 | 0.660766 | 9.989883 | 4 | 50 | |
| | 20 | 9.329213 | 96 | 9.339335 | 101 | 0.660665 | 9.989878 | 5 | 40 | |
| | 30 | 9.329310 | 97 | 9.339436 | 101 | 0.660564 | 9.989873 | 5 | 30 | |
| | 40 | 9.329406 | 96 | 9.339537 | 101 | 0.660463 | 9.989869 | 4 | 20 | |
| | 50 | 9.329502 | 96 | 9.339638 | 101 | 0.660362 | 9.989864 | 5 | 10 | |
| 20 | 0 | 9.329599 | 97 | 9.339739 | 101 | 0.660261 | 9.989860 | 4 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

102
1 10.2
2 20.2
3 30.6
4 40.8
5 51.0
6 61.2
7 71.4
8 81.6
9 91.8

101
1 10.1
2 20.2
3 30.3
4 40.4
5 50.5
6 60.6
7 70.7
8 80.8
9 90.9

97
1 9.7
2 19.4
3 29.1
4 38.8
5 48.5
6 58.2
7 67.9
8 77.6
9 87.3

96
1 9.6
2 19.2
3 28.8
4 38.4
5 48.0
6 57.6
7 67.2
8 76.8
9 86.4

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|-------|----|------------|----|----------|------|----------|----------|----|----|----|
| 101 | 20 | 0 9.329599 | 96 | 9.339739 | 101 | 0.660261 | 9.989860 | 5 | 0 | 40 |
| 110.1 | 10 | 9.329695 | 96 | 9.339840 | 101 | 0.660160 | 9.989855 | 5 | 50 | |
| 220.2 | 20 | 9.329791 | 97 | 9.339941 | 101 | 0.660059 | 9.989850 | 5 | 40 | |
| 330.3 | 30 | 9.329888 | 96 | 9.340042 | 101 | 0.659958 | 9.989846 | 5 | 30 | |
| 440.4 | 40 | 9.329984 | 96 | 9.340143 | 100 | 0.659857 | 9.989841 | 5 | 20 | |
| 550.5 | 50 | 9.330080 | 96 | 9.340243 | 101 | 0.659757 | 9.989837 | 5 | 10 | |
| 660.6 | 21 | 0 9.330176 | 96 | 9.340344 | 101 | 0.659656 | 9.989832 | 5 | 0 | 39 |
| 770.7 | 10 | 9.330272 | 96 | 9.340445 | 101 | 0.659555 | 9.989827 | 5 | 50 | |
| 880.8 | 20 | 9.330368 | 97 | 9.340546 | 100 | 0.659454 | 9.989823 | 4 | 40 | |
| 990.9 | 30 | 9.330465 | 96 | 9.340646 | 101 | 0.659354 | 9.989818 | 5 | 30 | |
| | 40 | 9.330561 | 96 | 9.340747 | 101 | 0.659253 | 9.989814 | 4 | 20 | |
| | 50 | 9.330657 | 96 | 9.340848 | 100 | 0.659152 | 9.989809 | 5 | 10 | |
| | 22 | 0 9.330753 | 96 | 9.340948 | 101 | 0.659052 | 9.989804 | 5 | 0 | 38 |
| | 10 | 9.330849 | 96 | 9.341049 | 101 | 0.658951 | 9.989800 | 4 | 50 | |
| | 20 | 9.330945 | 96 | 9.341150 | 100 | 0.658850 | 9.989795 | 5 | 40 | |
| | 30 | 9.331041 | 96 | 9.341250 | 101 | 0.658750 | 9.989790 | 5 | 30 | |
| | 40 | 9.331137 | 96 | 9.341351 | 101 | 0.658649 | 9.989786 | 4 | 20 | |
| | 50 | 9.331233 | 96 | 9.341451 | 101 | 0.658549 | 9.989781 | 5 | 10 | |
| | 23 | 0 9.331329 | 95 | 9.341552 | 100 | 0.658448 | 9.989777 | 4 | 0 | 37 |
| | 10 | 9.331424 | 96 | 9.341652 | 101 | 0.658348 | 9.989772 | 5 | 50 | |
| | 20 | 9.331520 | 96 | 9.341753 | 100 | 0.658247 | 9.989767 | 5 | 40 | |
| | 30 | 9.331616 | 96 | 9.341853 | 101 | 0.658147 | 9.989763 | 4 | 30 | |
| | 40 | 9.331712 | 96 | 9.341954 | 101 | 0.658046 | 9.989758 | 5 | 20 | |
| | 50 | 9.331808 | 95 | 9.342054 | 101 | 0.657946 | 9.989753 | 5 | 10 | |
| | 24 | 0 9.331903 | 96 | 9.342155 | 100 | 0.657845 | 9.989749 | 4 | 0 | 36 |
| | 10 | 9.331999 | 96 | 9.342255 | 100 | 0.657745 | 9.989744 | 5 | 50 | |
| | 20 | 9.332095 | 96 | 9.342355 | 101 | 0.657645 | 9.989740 | 4 | 40 | |
| | 30 | 9.332191 | 96 | 9.342456 | 101 | 0.657544 | 9.989735 | 5 | 30 | |
| | 40 | 9.332286 | 95 | 9.342556 | 100 | 0.657444 | 9.989730 | 5 | 20 | |
| | 50 | 9.332382 | 96 | 9.342656 | 101 | 0.657344 | 9.989726 | 4 | 10 | |
| | 25 | 0 9.332478 | 95 | 9.342757 | 100 | 0.657243 | 9.989721 | 5 | 0 | 35 |
| | 10 | 9.332573 | 96 | 9.342857 | 100 | 0.657143 | 9.989716 | 5 | 50 | |
| | 20 | 9.332669 | 95 | 9.342957 | 100 | 0.657043 | 9.989712 | 4 | 40 | |
| | 30 | 9.332764 | 96 | 9.343057 | 101 | 0.656943 | 9.989707 | 5 | 30 | |
| | 40 | 9.332860 | 96 | 9.343158 | 101 | 0.656842 | 9.989703 | 4 | 20 | |
| | 50 | 9.332956 | 96 | 9.343258 | 100 | 0.656742 | 9.989698 | 5 | 10 | |
| | 26 | 0 9.333051 | 95 | 9.343358 | 100 | 0.656642 | 9.989693 | 5 | 0 | 34 |
| | 10 | 9.333147 | 96 | 9.343458 | 100 | 0.656542 | 9.989689 | 4 | 50 | |
| | 20 | 9.333242 | 95 | 9.343558 | 100 | 0.656442 | 9.989684 | 5 | 40 | |
| | 30 | 9.333337 | 95 | 9.343658 | 100 | 0.656342 | 9.989679 | 5 | 30 | |
| | 40 | 9.333433 | 96 | 9.343758 | 100 | 0.656242 | 9.989675 | 4 | 20 | |
| | 50 | 9.333528 | 95 | 9.343858 | 100 | 0.656142 | 9.989670 | 5 | 10 | |
| | 27 | 0 9.333624 | 96 | 9.343958 | 100 | 0.656042 | 9.989665 | 5 | 0 | 33 |
| | 10 | 9.333719 | 95 | 9.344058 | 100 | 0.655942 | 9.989661 | 4 | 50 | |
| | 20 | 9.333814 | 95 | 9.344158 | 100 | 0.655842 | 9.989656 | 5 | 40 | |
| | 30 | 9.333910 | 96 | 9.344258 | 100 | 0.655742 | 9.989651 | 5 | 30 | |
| | 40 | 9.334005 | 95 | 9.344358 | 100 | 0.655642 | 9.989647 | 4 | 20 | |
| | 50 | 9.334100 | 95 | 9.344458 | 100 | 0.655542 | 9.989642 | 5 | 10 | |
| | 28 | 0 9.334195 | 95 | 9.344558 | 100 | 0.655442 | 9.989637 | 5 | 0 | 32 |
| | 10 | 9.334291 | 96 | 9.344658 | 100 | 0.655342 | 9.989633 | 4 | 50 | |
| | 20 | 9.334386 | 95 | 9.344758 | 100 | 0.655242 | 9.989628 | 5 | 40 | |
| | 30 | 9.334481 | 95 | 9.344858 | 100 | 0.655142 | 9.989623 | 5 | 30 | |
| | 40 | 9.334576 | 95 | 9.344957 | 99 | 0.655043 | 9.989619 | 4 | 20 | |
| | 50 | 9.334671 | 95 | 9.345057 | 100 | 0.654943 | 9.989614 | 5 | 10 | |
| | 29 | 0 9.334767 | 96 | 9.345157 | 100 | 0.654843 | 9.989610 | 4 | 0 | 31 |
| | 10 | 9.334862 | 95 | 9.345257 | 100 | 0.654743 | 9.989605 | 5 | 50 | |
| | 20 | 9.334957 | 95 | 9.345357 | 99 | 0.654643 | 9.989600 | 5 | 40 | |
| | 30 | 9.335052 | 95 | 9.345456 | 99 | 0.654544 | 9.989596 | 5 | 30 | |
| | 40 | 9.335147 | 95 | 9.345556 | 100 | 0.654444 | 9.989591 | 5 | 20 | |
| | 50 | 9.335242 | 95 | 9.345656 | 99 | 0.654344 | 9.989586 | 5 | 10 | |
| | 30 | 9.335337 | 95 | 9.345755 | | 0.654245 | 9.989582 | 4 | 0 | 30 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|---|----|----|
| 30 | 0 | 9.335337 | 95 | 9.345755 | 100 | 0.654245 | 9.989582 | 5 | 0 | 30 |
| | 10 | 9.335432 | 95 | 9.345855 | 99 | 0.654145 | 9.989577 | 5 | 40 | |
| | 20 | 9.335527 | 95 | 9.345954 | 100 | 0.654046 | 9.989572 | 5 | 30 | |
| | 30 | 9.335622 | 95 | 9.346054 | 100 | 0.653946 | 9.989568 | 5 | 20 | |
| | 40 | 9.335716 | 94 | 9.346154 | 99 | 0.653846 | 9.989563 | 5 | 10 | |
| | 50 | 9.335811 | 95 | 9.346253 | 100 | 0.653747 | 9.989558 | 5 | 0 | |
| 31 | 0 | 9.335906 | 95 | 9.346353 | 99 | 0.653647 | 9.989553 | 5 | 0 | 29 |
| | 10 | 9.336001 | 95 | 9.346452 | 100 | 0.653548 | 9.989549 | 5 | 40 | |
| | 20 | 9.336096 | 95 | 9.346552 | 99 | 0.653448 | 9.989544 | 5 | 30 | |
| | 30 | 9.336191 | 95 | 9.346651 | 100 | 0.653349 | 9.989539 | 5 | 20 | |
| | 40 | 9.336285 | 94 | 9.346751 | 99 | 0.653249 | 9.989535 | 5 | 10 | |
| | 50 | 9.336380 | 95 | 9.346850 | 100 | 0.653150 | 9.989530 | 5 | 0 | |
| 32 | 0 | 9.336475 | 95 | 9.346949 | 100 | 0.653051 | 9.989525 | 5 | 0 | 28 |
| | 10 | 9.336570 | 95 | 9.347049 | 99 | 0.652951 | 9.989521 | 5 | 40 | |
| | 20 | 9.336664 | 94 | 9.347148 | 100 | 0.652852 | 9.989516 | 5 | 30 | |
| | 30 | 9.336759 | 95 | 9.347248 | 99 | 0.652752 | 9.989511 | 5 | 20 | |
| | 40 | 9.336854 | 94 | 9.347347 | 99 | 0.652653 | 9.989507 | 5 | 10 | |
| | 50 | 9.336948 | 95 | 9.347446 | 100 | 0.652554 | 9.989502 | 5 | 0 | |
| 33 | 0 | 9.337043 | 94 | 9.347545 | 100 | 0.652455 | 9.989497 | 5 | 0 | 27 |
| | 10 | 9.337137 | 95 | 9.347645 | 99 | 0.652355 | 9.989493 | 5 | 40 | |
| | 20 | 9.337232 | 94 | 9.347744 | 99 | 0.652256 | 9.989488 | 5 | 30 | |
| | 30 | 9.337326 | 95 | 9.347843 | 99 | 0.652157 | 9.989483 | 5 | 20 | |
| | 40 | 9.337421 | 94 | 9.347942 | 100 | 0.652058 | 9.989479 | 5 | 10 | |
| | 50 | 9.337515 | 95 | 9.348042 | 99 | 0.651958 | 9.989475 | 5 | 0 | |
| 34 | 0 | 9.337610 | 94 | 9.348141 | 99 | 0.651859 | 9.989470 | 5 | 0 | 26 |
| | 10 | 9.337704 | 95 | 9.348240 | 99 | 0.651760 | 9.989464 | 5 | 40 | |
| | 20 | 9.337799 | 95 | 9.348339 | 99 | 0.651661 | 9.989460 | 5 | 30 | |
| | 30 | 9.337893 | 94 | 9.348438 | 99 | 0.651562 | 9.989455 | 5 | 20 | |
| | 40 | 9.337988 | 95 | 9.348537 | 99 | 0.651463 | 9.989450 | 5 | 10 | |
| | 50 | 9.338082 | 94 | 9.348636 | 99 | 0.651364 | 9.989446 | 5 | 0 | |
| 35 | 0 | 9.338176 | 95 | 9.348735 | 99 | 0.651265 | 9.989441 | 5 | 0 | 25 |
| | 10 | 9.338271 | 94 | 9.348834 | 99 | 0.651166 | 9.989436 | 5 | 40 | |
| | 20 | 9.338365 | 94 | 9.348933 | 99 | 0.651067 | 9.989432 | 5 | 30 | |
| | 30 | 9.338459 | 94 | 9.349032 | 99 | 0.650968 | 9.989427 | 5 | 20 | |
| | 40 | 9.338553 | 94 | 9.349131 | 99 | 0.650869 | 9.989422 | 5 | 10 | |
| | 50 | 9.338648 | 95 | 9.349230 | 99 | 0.650770 | 9.989417 | 5 | 0 | |
| 36 | 0 | 9.338742 | 94 | 9.349329 | 99 | 0.650671 | 9.989413 | 5 | 0 | 24 |
| | 10 | 9.338836 | 94 | 9.349428 | 99 | 0.650572 | 9.989408 | 5 | 40 | |
| | 20 | 9.338930 | 94 | 9.349527 | 99 | 0.650473 | 9.989403 | 5 | 30 | |
| | 30 | 9.339024 | 94 | 9.349626 | 99 | 0.650374 | 9.989399 | 5 | 20 | |
| | 40 | 9.339118 | 94 | 9.349724 | 98 | 0.650276 | 9.989394 | 5 | 10 | |
| | 50 | 9.339212 | 94 | 9.349823 | 99 | 0.650177 | 9.989389 | 5 | 0 | |
| 37 | 0 | 9.339307 | 95 | 9.349922 | 99 | 0.650078 | 9.989385 | 5 | 0 | 23 |
| | 10 | 9.339401 | 94 | 9.350021 | 99 | 0.649979 | 9.989380 | 5 | 40 | |
| | 20 | 9.339495 | 94 | 9.350120 | 99 | 0.649880 | 9.989375 | 5 | 30 | |
| | 30 | 9.339589 | 94 | 9.350218 | 98 | 0.649782 | 9.989370 | 5 | 20 | |
| | 40 | 9.339683 | 94 | 9.350317 | 99 | 0.649683 | 9.989365 | 5 | 10 | |
| | 50 | 9.339777 | 94 | 9.350416 | 99 | 0.649584 | 9.989360 | 5 | 0 | |
| 38 | 0 | 9.339871 | 94 | 9.350514 | 98 | 0.649485 | 9.989355 | 5 | 0 | 22 |
| | 10 | 9.339964 | 93 | 9.350613 | 99 | 0.649386 | 9.989350 | 5 | 40 | |
| | 20 | 9.340058 | 94 | 9.350712 | 99 | 0.649288 | 9.989345 | 5 | 30 | |
| | 30 | 9.340152 | 94 | 9.350810 | 98 | 0.649190 | 9.989340 | 5 | 20 | |
| | 40 | 9.340246 | 94 | 9.350909 | 99 | 0.649091 | 9.989335 | 5 | 10 | |
| | 50 | 9.340340 | 94 | 9.351007 | 98 | 0.648992 | 9.989330 | 5 | 0 | |
| 39 | 0 | 9.340434 | 94 | 9.351106 | 99 | 0.648893 | 9.989325 | 5 | 0 | 21 |
| | 10 | 9.340528 | 94 | 9.351204 | 98 | 0.648796 | 9.989320 | 5 | 40 | |
| | 20 | 9.340621 | 93 | 9.351303 | 99 | 0.648697 | 9.989315 | 5 | 30 | |
| | 30 | 9.340715 | 94 | 9.351401 | 98 | 0.648599 | 9.989310 | 5 | 20 | |
| | 40 | 9.340809 | 94 | 9.351500 | 99 | 0.648500 | 9.989305 | 5 | 10 | |
| | 50 | 9.340903 | 94 | 9.351598 | 98 | 0.648402 | 9.989300 | 5 | 0 | |
| 40 | 0 | 9.340996 | 93 | 9.351697 | 99 | 0.648303 | 9.989295 | 5 | 0 | 20 |

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1 9.9
2 19.8
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6 55.8
7 65.1
8 74.4
9 83.7

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|------|----|----------|----|----------|------|----------|----------|----|----|----|
| 40 | 0 | 9.340996 | 94 | 9.351697 | 98 | 0.648303 | 9.989300 | 5 | 0 | 20 |
| | 10 | 9.341090 | 94 | 9.351795 | 99 | 0.648205 | 9.989295 | 5 | 50 | |
| | 20 | 9.341184 | 93 | 9.351894 | 98 | 0.648106 | 9.989290 | 5 | 40 | |
| | 30 | 9.341277 | 94 | 9.351992 | 98 | 0.648008 | 9.989285 | 5 | 30 | |
| | 40 | 9.341371 | 93 | 9.352090 | 98 | 0.647910 | 9.989281 | 4 | 20 | |
| | 50 | 9.341464 | 93 | 9.352189 | 99 | 0.647811 | 9.989276 | 5 | 10 | |
| 41 | 0 | 9.341558 | 94 | 9.352287 | 98 | 0.647713 | 9.989271 | 5 | 0 | 19 |
| | 10 | 9.341652 | 93 | 9.352385 | 98 | 0.647615 | 9.989266 | 4 | 50 | |
| | 20 | 9.341745 | 94 | 9.352483 | 99 | 0.647517 | 9.989262 | 5 | 40 | |
| | 30 | 9.341839 | 93 | 9.352582 | 98 | 0.647418 | 9.989257 | 5 | 30 | |
| | 40 | 9.341932 | 93 | 9.352680 | 98 | 0.647320 | 9.989252 | 5 | 20 | |
| | 50 | 9.342026 | 94 | 9.352778 | 98 | 0.647222 | 9.989247 | 5 | 10 | |
| 42 | 0 | 9.342119 | 93 | 9.352876 | 98 | 0.647124 | 9.989243 | 4 | 0 | 18 |
| | 10 | 9.342212 | 94 | 9.352974 | 99 | 0.647026 | 9.989238 | 5 | 50 | |
| | 20 | 9.342306 | 93 | 9.353073 | 98 | 0.646927 | 9.989233 | 5 | 40 | |
| | 30 | 9.342399 | 94 | 9.353171 | 98 | 0.646829 | 9.989228 | 5 | 30 | |
| | 40 | 9.342493 | 93 | 9.353269 | 98 | 0.646731 | 9.989224 | 4 | 20 | |
| | 50 | 9.342586 | 93 | 9.353367 | 98 | 0.646633 | 9.989219 | 5 | 10 | |
| 43 | 0 | 9.342679 | 93 | 9.353465 | 98 | 0.646535 | 9.989214 | 5 | 0 | 17 |
| | 10 | 9.342772 | 94 | 9.353563 | 98 | 0.646437 | 9.989209 | 4 | 50 | |
| | 20 | 9.342866 | 93 | 9.353661 | 98 | 0.646339 | 9.989205 | 5 | 40 | |
| | 30 | 9.342959 | 93 | 9.353759 | 98 | 0.646241 | 9.989200 | 5 | 30 | |
| | 40 | 9.343052 | 93 | 9.353857 | 98 | 0.646143 | 9.989195 | 5 | 20 | |
| | 50 | 9.343145 | 94 | 9.353955 | 98 | 0.646045 | 9.989190 | 5 | 10 | |
| 44 | 0 | 9.343239 | 93 | 9.354053 | 98 | 0.645947 | 9.989186 | 4 | 0 | 16 |
| | 10 | 9.343332 | 93 | 9.354151 | 98 | 0.645849 | 9.989181 | 5 | 50 | |
| | 20 | 9.343425 | 93 | 9.354249 | 98 | 0.645751 | 9.989176 | 5 | 40 | |
| | 30 | 9.343518 | 93 | 9.354347 | 98 | 0.645653 | 9.989171 | 5 | 30 | |
| | 40 | 9.343611 | 93 | 9.354445 | 97 | 0.645555 | 9.989167 | 4 | 20 | |
| | 50 | 9.343704 | 93 | 9.354542 | 98 | 0.645458 | 9.989162 | 5 | 10 | |
| * 45 | 0 | 9.343797 | 93 | 9.354640 | 98 | 0.645360 | 9.989157 | 5 | 0 | 15 |
| | 10 | 9.343890 | 93 | 9.354738 | 98 | 0.645262 | 9.989152 | 5 | 50 | |
| | 20 | 9.343983 | 93 | 9.354836 | 98 | 0.645164 | 9.989148 | 4 | 40 | |
| | 30 | 9.344076 | 93 | 9.354934 | 98 | 0.645066 | 9.989143 | 5 | 30 | |
| | 40 | 9.344169 | 93 | 9.355031 | 97 | 0.644969 | 9.989138 | 5 | 20 | |
| | 50 | 9.344262 | 93 | 9.355129 | 98 | 0.644871 | 9.989133 | 5 | 10 | |
| 46 | 0 | 9.344355 | 93 | 9.355227 | 97 | 0.644773 | 9.989129 | 4 | 0 | 14 |
| | 10 | 9.344448 | 93 | 9.355324 | 98 | 0.644675 | 9.989124 | 5 | 50 | |
| | 20 | 9.344541 | 93 | 9.355422 | 98 | 0.644578 | 9.989119 | 5 | 40 | |
| | 30 | 9.344634 | 93 | 9.355520 | 98 | 0.644480 | 9.989114 | 5 | 30 | |
| | 40 | 9.344727 | 93 | 9.355617 | 97 | 0.644383 | 9.989109 | 5 | 20 | |
| | 50 | 9.344820 | 93 | 9.355715 | 98 | 0.644285 | 9.989105 | 4 | 10 | |
| 47 | 0 | 9.344912 | 92 | 9.355813 | 97 | 0.644187 | 9.989100 | 5 | 0 | 13 |
| | 10 | 9.345005 | 93 | 9.355910 | 98 | 0.644090 | 9.989095 | 5 | 50 | |
| | 20 | 9.345098 | 93 | 9.356008 | 98 | 0.643992 | 9.989090 | 5 | 40 | |
| | 30 | 9.345191 | 93 | 9.356105 | 97 | 0.643895 | 9.989085 | 5 | 30 | |
| | 40 | 9.345283 | 92 | 9.356203 | 98 | 0.643797 | 9.989081 | 4 | 20 | |
| | 50 | 9.345376 | 93 | 9.356300 | 98 | 0.643700 | 9.989076 | 5 | 10 | |
| 48 | 0 | 9.345469 | 92 | 9.356398 | 97 | 0.643602 | 9.989071 | 5 | 0 | 12 |
| | 10 | 9.345561 | 93 | 9.356495 | 98 | 0.643505 | 9.989066 | 5 | 50 | |
| | 20 | 9.345654 | 93 | 9.356593 | 98 | 0.643407 | 9.989062 | 4 | 40 | |
| | 30 | 9.345747 | 93 | 9.356690 | 97 | 0.643310 | 9.989057 | 5 | 30 | |
| | 40 | 9.345839 | 92 | 9.356787 | 97 | 0.643213 | 9.989052 | 5 | 20 | |
| | 50 | 9.345932 | 93 | 9.356885 | 98 | 0.643115 | 9.989047 | 5 | 10 | |
| 49 | 0 | 9.346024 | 92 | 9.356982 | 97 | 0.643018 | 9.989042 | 5 | 0 | 11 |
| | 10 | 9.346117 | 93 | 9.357079 | 97 | 0.642921 | 9.989038 | 4 | 50 | |
| | 20 | 9.346210 | 93 | 9.357177 | 98 | 0.642823 | 9.989033 | 5 | 40 | |
| | 30 | 9.346302 | 92 | 9.357274 | 97 | 0.642726 | 9.989028 | 5 | 30 | |
| | 40 | 9.346395 | 93 | 9.357371 | 97 | 0.642629 | 9.989023 | 5 | 20 | |
| | 50 | 9.346487 | 92 | 9.357469 | 98 | 0.642531 | 9.989018 | 5 | 10 | |
| 50 | 0 | 9.346579 | 92 | 9.357566 | 97 | 0.642434 | 9.989014 | 4 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.346579 | 93 | 9.357566 | 97 | 0.642434 | 9.989014 | 5 | 0 | 10 |
| | 10 | 9.346672 | 92 | 9.357663 | 97 | 0.642337 | 9.989009 | 5 | 50 | |
| | 20 | 9.346764 | 92 | 9.357760 | 97 | 0.642240 | 9.989004 | 5 | 40 | |
| | 30 | 9.346857 | 92 | 9.357857 | 97 | 0.642143 | 9.988999 | 5 | 30 | |
| | 40 | 9.346949 | 92 | 9.357954 | 98 | 0.642046 | 9.988994 | 5 | 20 | |
| | 50 | 9.347041 | 92 | 9.358052 | 98 | 0.641948 | 9.988990 | 5 | 10 | |
| 51 | 0 | 9.347134 | 92 | 9.358149 | 97 | 0.641851 | 9.988985 | 4 | 0 | 9 |
| | 10 | 9.347226 | 92 | 9.358246 | 97 | 0.641754 | 9.988980 | 5 | 50 | |
| | 20 | 9.347318 | 92 | 9.358343 | 97 | 0.641657 | 9.988975 | 5 | 40 | |
| | 30 | 9.347410 | 92 | 9.358440 | 97 | 0.641560 | 9.988970 | 5 | 30 | |
| | 40 | 9.347503 | 93 | 9.358537 | 97 | 0.641463 | 9.988966 | 4 | 20 | |
| | 50 | 9.347595 | 92 | 9.358634 | 97 | 0.641366 | 9.988961 | 5 | 10 | |
| 52 | 0 | 9.347687 | 92 | 9.358731 | 97 | 0.641269 | 9.988956 | 5 | 0 | 8 |
| | 10 | 9.347779 | 92 | 9.358828 | 97 | 0.641172 | 9.988951 | 5 | 50 | |
| | 20 | 9.347871 | 92 | 9.358925 | 97 | 0.641075 | 9.988946 | 5 | 40 | |
| | 30 | 9.347963 | 92 | 9.359022 | 97 | 0.640978 | 9.988942 | 4 | 30 | |
| | 40 | 9.348056 | 93 | 9.359119 | 97 | 0.640881 | 9.988937 | 5 | 20 | |
| | 50 | 9.348148 | 92 | 9.359216 | 97 | 0.640784 | 9.988932 | 5 | 10 | |
| 53 | 0 | 9.348240 | 92 | 9.359313 | 97 | 0.640687 | 9.988927 | 5 | 0 | 7 |
| | 10 | 9.348332 | 92 | 9.359409 | 96 | 0.640591 | 9.988922 | 5 | 50 | |
| | 20 | 9.348424 | 92 | 9.359506 | 97 | 0.640494 | 9.988918 | 4 | 40 | |
| | 30 | 9.348516 | 92 | 9.359603 | 97 | 0.640397 | 9.988913 | 5 | 30 | |
| | 40 | 9.348608 | 92 | 9.359700 | 97 | 0.640300 | 9.988908 | 5 | 20 | |
| | 50 | 9.348700 | 92 | 9.359797 | 96 | 0.640203 | 9.988903 | 5 | 10 | |
| 54 | 0 | 9.348792 | 92 | 9.359893 | 97 | 0.640107 | 9.988898 | 5 | 0 | 6 |
| | 10 | 9.348884 | 92 | 9.359990 | 97 | 0.640010 | 9.988893 | 5 | 50 | |
| | 20 | 9.348976 | 92 | 9.360087 | 97 | 0.639913 | 9.988889 | 4 | 40 | |
| | 30 | 9.349067 | 91 | 9.360184 | 97 | 0.639816 | 9.988884 | 5 | 30 | |
| | 40 | 9.349159 | 92 | 9.360280 | 96 | 0.639720 | 9.988879 | 5 | 20 | |
| | 50 | 9.349251 | 92 | 9.360377 | 97 | 0.639623 | 9.988874 | 5 | 10 | |
| 55 | 0 | 9.349343 | 92 | 9.360474 | 96 | 0.639526 | 9.988869 | 5 | 0 | 5 |
| | 10 | 9.349435 | 92 | 9.360570 | 97 | 0.639430 | 9.988864 | 5 | 50 | |
| | 20 | 9.349526 | 91 | 9.360667 | 97 | 0.639333 | 9.988860 | 4 | 40 | |
| | 30 | 9.349618 | 92 | 9.360763 | 96 | 0.639237 | 9.988855 | 5 | 30 | |
| | 40 | 9.349710 | 92 | 9.360860 | 97 | 0.639140 | 9.988850 | 5 | 20 | |
| | 50 | 9.349802 | 92 | 9.360957 | 97 | 0.639043 | 9.988845 | 5 | 10 | |
| 56 | 0 | 9.349893 | 91 | 9.361053 | 96 | 0.638947 | 9.988840 | 5 | 0 | 4 |
| | 10 | 9.349985 | 92 | 9.361150 | 97 | 0.638850 | 9.988835 | 5 | 50 | |
| | 20 | 9.350077 | 92 | 9.361246 | 96 | 0.638754 | 9.988831 | 4 | 40 | |
| | 30 | 9.350168 | 91 | 9.361343 | 97 | 0.638657 | 9.988826 | 5 | 30 | |
| | 40 | 9.350260 | 92 | 9.361439 | 96 | 0.638561 | 9.988821 | 5 | 20 | |
| | 50 | 9.350352 | 92 | 9.361535 | 96 | 0.638465 | 9.988816 | 5 | 10 | |
| 57 | 0 | 9.350443 | 91 | 9.361632 | 97 | 0.638368 | 9.988811 | 5 | 0 | 3 |
| | 10 | 9.350535 | 92 | 9.361728 | 96 | 0.638272 | 9.988806 | 5 | 50 | |
| | 20 | 9.350626 | 91 | 9.361825 | 97 | 0.638175 | 9.988802 | 4 | 40 | |
| | 30 | 9.350718 | 92 | 9.361921 | 96 | 0.638079 | 9.988797 | 5 | 30 | |
| | 40 | 9.350809 | 91 | 9.362017 | 96 | 0.637983 | 9.988792 | 5 | 20 | |
| | 50 | 9.350901 | 92 | 9.362114 | 97 | 0.637886 | 9.988787 | 5 | 10 | |
| 58 | 0 | 9.350992 | 91 | 9.362210 | 96 | 0.637789 | 9.988782 | 5 | 0 | 2 |
| | 10 | 9.351084 | 92 | 9.362306 | 96 | 0.637694 | 9.988777 | 5 | 50 | |
| | 20 | 9.351175 | 91 | 9.362403 | 97 | 0.637597 | 9.988772 | 5 | 40 | |
| | 30 | 9.351266 | 91 | 9.362499 | 96 | 0.637501 | 9.988768 | 4 | 30 | |
| | 40 | 9.351358 | 92 | 9.362595 | 96 | 0.637405 | 9.988763 | 5 | 20 | |
| | 50 | 9.351449 | 91 | 9.362691 | 96 | 0.637309 | 9.988758 | 5 | 10 | |
| 59 | 0 | 9.351540 | 92 | 9.362787 | 96 | 0.637213 | 9.988753 | 5 | 0 | 1 |
| | 10 | 9.351632 | 92 | 9.362884 | 97 | 0.637116 | 9.988748 | 5 | 50 | |
| | 20 | 9.351723 | 91 | 9.362980 | 96 | 0.637020 | 9.988743 | 5 | 40 | |
| | 30 | 9.351814 | 91 | 9.363076 | 96 | 0.636924 | 9.988739 | 4 | 30 | |
| | 40 | 9.351906 | 92 | 9.363172 | 96 | 0.636828 | 9.988734 | 5 | 20 | |
| | 50 | 9.351997 | 91 | 9.363268 | 96 | 0.636732 | 9.988729 | 5 | 10 | |
| 60 | 0 | 9.352088 | 91 | 9.363364 | 96 | 0.636636 | 9.988724 | 5 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

97
1 9.7
2 19.4
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96
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92
1 9.2
2 18.4
3 27.6
4 36.8
5 46.0
6 55.2
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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| | 0 | 9.352088 | 91 | 9.363364 | 96 | 0.636636 | 9.988724 | 5 | 0 | 60 |
| | 10 | 9.352179 | 91 | 9.363460 | 96 | 0.636540 | 9.988719 | 5 | 50 | |
| | 20 | 9.352270 | 92 | 9.363556 | 96 | 0.636444 | 9.988714 | 5 | 40 | |
| | 30 | 9.352362 | 91 | 9.363652 | 96 | 0.636348 | 9.988709 | 5 | 30 | |
| 96 | 40 | 9.352453 | 91 | 9.363748 | 96 | 0.636252 | 9.988704 | 5 | 20 | |
| 1 9.6 | 50 | 9.352544 | 91 | 9.363844 | 96 | 0.636156 | 9.988700 | 5 | 10 | |
| 2 19.2 | 1 | 9.352635 | 91 | 9.363940 | 96 | 0.636060 | 9.988695 | 5 | 0 | 59 |
| 3 28.8 | 10 | 9.352726 | 91 | 9.364036 | 96 | 0.635964 | 9.988690 | 5 | 50 | |
| 4 38.4 | 20 | 9.352817 | 91 | 9.364132 | 96 | 0.635868 | 9.988685 | 5 | 40 | |
| 5 48.0 | 30 | 9.352908 | 91 | 9.364228 | 96 | 0.635772 | 9.988680 | 5 | 30 | |
| 6 57.6 | 40 | 9.352999 | 91 | 9.364324 | 96 | 0.635676 | 9.988675 | 5 | 20 | |
| 7 67.2 | 50 | 9.353090 | 91 | 9.364420 | 96 | 0.635580 | 9.988670 | 5 | 10 | |
| 8 76.8 | 2 | 9.353181 | 91 | 9.364515 | 95 | 0.635485 | 9.988666 | 5 | 0 | 58 |
| 9 86.4 | 10 | 9.353272 | 91 | 9.364611 | 96 | 0.635389 | 9.988661 | 5 | 50 | |
| | 20 | 9.353363 | 91 | 9.364707 | 96 | 0.635293 | 9.988656 | 5 | 40 | |
| | 30 | 9.353454 | 91 | 9.364803 | 96 | 0.635197 | 9.988651 | 5 | 30 | |
| | 40 | 9.353545 | 91 | 9.364899 | 95 | 0.635101 | 9.988646 | 5 | 20 | |
| 95 | 50 | 9.353636 | 90 | 9.364994 | 95 | 0.635006 | 9.988641 | 5 | 10 | |
| 1 9.5 | 3 | 9.353726 | 91 | 9.365090 | 96 | 0.634910 | 9.988636 | 5 | 0 | 57 |
| 2 19.0 | 10 | 9.353817 | 91 | 9.365186 | 96 | 0.634814 | 9.988631 | 5 | 50 | |
| 3 28.5 | 20 | 9.353908 | 91 | 9.365282 | 95 | 0.634718 | 9.988626 | 5 | 40 | |
| 4 38.0 | 30 | 9.353999 | 91 | 9.365377 | 95 | 0.634623 | 9.988622 | 4 | 30 | |
| 5 47.5 | 40 | 9.354090 | 90 | 9.365473 | 95 | 0.634527 | 9.988617 | 5 | 20 | |
| 6 57.0 | 50 | 9.354180 | 91 | 9.365568 | 96 | 0.634432 | 9.988612 | 5 | 10 | |
| 7 66.5 | 4 | 9.354271 | 91 | 9.365664 | 96 | 0.634336 | 9.988607 | 5 | 0 | 56 |
| 8 76.0 | 10 | 9.354362 | 90 | 9.365760 | 95 | 0.634240 | 9.988602 | 5 | 50 | |
| 9 85.5 | 20 | 9.354452 | 91 | 9.365855 | 96 | 0.634145 | 9.988597 | 5 | 40 | |
| | 30 | 9.354543 | 91 | 9.365951 | 95 | 0.634049 | 9.988592 | 5 | 30 | |
| | 40 | 9.354634 | 91 | 9.366046 | 95 | 0.633954 | 9.988587 | 5 | 20 | |
| | 50 | 9.354724 | 91 | 9.366142 | 96 | 0.633858 | 9.988583 | 4 | 10 | |
| * | 5 | 9.354815 | 91 | 9.366237 | 95 | 0.633763 | 9.988578 | 5 | 0 | 55 |
| | 10 | 9.354906 | 90 | 9.366333 | 95 | 0.633667 | 9.988573 | 5 | 50 | |
| | 20 | 9.354996 | 91 | 9.366428 | 96 | 0.633572 | 9.988568 | 5 | 40 | |
| | 30 | 9.355087 | 91 | 9.366524 | 96 | 0.633476 | 9.988563 | 5 | 30 | |
| | 40 | 9.355177 | 90 | 9.366619 | 95 | 0.633381 | 9.988558 | 5 | 20 | |
| 92 | 50 | 9.355268 | 91 | 9.366715 | 96 | 0.633285 | 9.988553 | 5 | 10 | |
| 1 9.2 | 6 | 9.355358 | 90 | 9.366810 | 95 | 0.633189 | 9.988548 | 5 | 0 | 54 |
| 2 18.4 | 10 | 9.355449 | 91 | 9.366905 | 95 | 0.633095 | 9.988543 | 5 | 50 | |
| 3 27.6 | 20 | 9.355539 | 91 | 9.367001 | 96 | 0.632999 | 9.988538 | 5 | 40 | |
| 4 36.8 | 30 | 9.355630 | 91 | 9.367096 | 95 | 0.632904 | 9.988534 | 5 | 30 | |
| 5 46.0 | 40 | 9.355720 | 90 | 9.367191 | 95 | 0.632809 | 9.988529 | 5 | 20 | |
| 6 55.2 | 50 | 9.355810 | 90 | 9.367287 | 96 | 0.632713 | 9.988524 | 5 | 10 | |
| 7 64.4 | 7 | 9.355901 | 91 | 9.367382 | 95 | 0.632618 | 9.988519 | 5 | 0 | 53 |
| 8 73.6 | 10 | 9.355991 | 90 | 9.367477 | 95 | 0.632523 | 9.988514 | 5 | 50 | |
| 9 82.8 | 20 | 9.356081 | 90 | 9.367572 | 95 | 0.632428 | 9.988509 | 5 | 40 | |
| | 30 | 9.356172 | 91 | 9.367668 | 96 | 0.632332 | 9.988504 | 5 | 30 | |
| | 40 | 9.356262 | 90 | 9.367763 | 95 | 0.632237 | 9.988499 | 5 | 20 | |
| | 50 | 9.356352 | 91 | 9.367858 | 95 | 0.632141 | 9.988494 | 5 | 10 | |
| 91 | 8 | 9.356443 | 90 | 9.367953 | 95 | 0.632045 | 9.988489 | 5 | 0 | 52 |
| 1 9.1 | 10 | 9.356533 | 90 | 9.368048 | 95 | 0.631950 | 9.988484 | 5 | 50 | |
| 2 18.2 | 20 | 9.356623 | 90 | 9.368143 | 95 | 0.631857 | 9.988480 | 5 | 40 | |
| 3 27.3 | 30 | 9.356713 | 90 | 9.368239 | 96 | 0.631761 | 9.988475 | 5 | 30 | |
| 4 36.4 | 40 | 9.356803 | 90 | 9.368334 | 95 | 0.631666 | 9.988470 | 5 | 20 | |
| 5 45.5 | 50 | 9.356894 | 91 | 9.368429 | 95 | 0.631571 | 9.988465 | 5 | 10 | |
| 6 54.6 | 9 | 9.356984 | 90 | 9.368524 | 95 | 0.631476 | 9.988460 | 5 | 0 | 51 |
| 7 63.7 | 10 | 9.357074 | 90 | 9.368619 | 95 | 0.631381 | 9.988455 | 5 | 50 | |
| 8 72.8 | 20 | 9.357164 | 90 | 9.368714 | 95 | 0.631286 | 9.988450 | 5 | 40 | |
| 9 81.9 | 30 | 9.357254 | 90 | 9.368809 | 95 | 0.631191 | 9.988445 | 5 | 30 | |
| | 40 | 9.357344 | 90 | 9.368904 | 95 | 0.631096 | 9.988440 | 5 | 20 | |
| | 50 | 9.357434 | 90 | 9.369000 | 95 | 0.631001 | 9.988435 | 5 | 10 | |
| | 10 | 9.357524 | 90 | 9.369094 | 95 | 0.630906 | 9.988430 | 5 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|---|----|----|
| 10 | 0 | 9.357524 | 90 | 9.369094 | 95 | 0.630906 | 9.988430 | 5 | 0 | 50 |
| | 10 | 9.357614 | 90 | 9.369189 | 95 | 0.630811 | 9.988425 | 5 | 50 | |
| | 20 | 9.357704 | 90 | 9.369284 | 94 | 0.630716 | 9.988420 | 5 | 40 | |
| | 30 | 9.357794 | 90 | 9.369378 | 94 | 0.630622 | 9.988416 | 5 | 30 | |
| | 40 | 9.357884 | 90 | 9.369473 | 95 | 0.630527 | 9.988411 | 5 | 20 | |
| | 50 | 9.357974 | 90 | 9.369568 | 95 | 0.630432 | 9.988406 | 5 | 10 | |
| 11 | 0 | 9.358064 | 90 | 9.369663 | 95 | 0.630337 | 9.988401 | 5 | 0 | 49 |
| | 10 | 9.358154 | 89 | 9.369758 | 95 | 0.630242 | 9.988396 | 5 | 50 | |
| | 20 | 9.358243 | 90 | 9.369853 | 94 | 0.630147 | 9.988391 | 5 | 40 | |
| | 30 | 9.358333 | 90 | 9.369947 | 94 | 0.630053 | 9.988386 | 5 | 30 | |
| | 40 | 9.358423 | 90 | 9.370042 | 95 | 0.629958 | 9.988381 | 5 | 20 | |
| | 50 | 9.358513 | 90 | 9.370137 | 95 | 0.629863 | 9.988376 | 5 | 10 | |
| 12 | 0 | 9.358603 | 89 | 9.370232 | 94 | 0.629768 | 9.988371 | 5 | 0 | 48 |
| | 10 | 9.358692 | 90 | 9.370326 | 95 | 0.629674 | 9.988366 | 5 | 50 | |
| | 20 | 9.358782 | 90 | 9.370421 | 95 | 0.629579 | 9.988361 | 5 | 40 | |
| | 30 | 9.358872 | 90 | 9.370516 | 94 | 0.629484 | 9.988356 | 5 | 30 | |
| | 40 | 9.358962 | 89 | 9.370610 | 95 | 0.629390 | 9.988351 | 5 | 20 | |
| | 50 | 9.359051 | 90 | 9.370705 | 94 | 0.629295 | 9.988346 | 5 | 10 | |
| 13 | 0 | 9.359141 | 90 | 9.370799 | 95 | 0.629201 | 9.988342 | 4 | 0 | 47 |
| | 10 | 9.359231 | 89 | 9.370894 | 95 | 0.629106 | 9.988337 | 5 | 50 | |
| | 20 | 9.359320 | 90 | 9.370989 | 94 | 0.629011 | 9.988332 | 5 | 40 | |
| | 30 | 9.359410 | 90 | 9.371083 | 94 | 0.628917 | 9.988327 | 5 | 30 | |
| | 40 | 9.359499 | 89 | 9.371178 | 95 | 0.628822 | 9.988322 | 5 | 20 | |
| | 50 | 9.359589 | 89 | 9.371272 | 95 | 0.628728 | 9.988317 | 5 | 10 | |
| 14 | 0 | 9.359678 | 90 | 9.371367 | 94 | 0.628633 | 9.988312 | 5 | 0 | 46 |
| | 10 | 9.359768 | 90 | 9.371461 | 95 | 0.628539 | 9.988307 | 5 | 50 | |
| | 20 | 9.359858 | 89 | 9.371556 | 94 | 0.628444 | 9.988302 | 5 | 40 | |
| | 30 | 9.359947 | 89 | 9.371650 | 94 | 0.628350 | 9.988297 | 5 | 30 | |
| | 40 | 9.360036 | 90 | 9.371744 | 95 | 0.628256 | 9.988292 | 5 | 20 | |
| | 50 | 9.360126 | 89 | 9.371839 | 94 | 0.628161 | 9.988287 | 5 | 10 | |
| 15 | 0 | 9.360215 | 90 | 9.371933 | 95 | 0.628067 | 9.988282 | 5 | 0 | 45 |
| | 10 | 9.360305 | 89 | 9.372028 | 94 | 0.627972 | 9.988277 | 5 | 50 | |
| | 20 | 9.360394 | 90 | 9.372122 | 94 | 0.627878 | 9.988272 | 5 | 40 | |
| | 30 | 9.360484 | 89 | 9.372216 | 95 | 0.627784 | 9.988267 | 5 | 30 | |
| | 40 | 9.360573 | 90 | 9.372311 | 95 | 0.627689 | 9.988262 | 5 | 20 | |
| | 50 | 9.360662 | 89 | 9.372405 | 94 | 0.627595 | 9.988257 | 5 | 10 | |
| 16 | 0 | 9.360752 | 90 | 9.372499 | 94 | 0.627501 | 9.988252 | 5 | 0 | 44 |
| | 10 | 9.360841 | 89 | 9.372593 | 94 | 0.627407 | 9.988247 | 5 | 50 | |
| | 20 | 9.360930 | 89 | 9.372688 | 95 | 0.627312 | 9.988242 | 5 | 40 | |
| | 30 | 9.361019 | 90 | 9.372782 | 94 | 0.627218 | 9.988237 | 5 | 30 | |
| | 40 | 9.361109 | 90 | 9.372876 | 94 | 0.627124 | 9.988232 | 5 | 20 | |
| | 50 | 9.361198 | 89 | 9.372970 | 94 | 0.627030 | 9.988227 | 5 | 10 | |
| 17 | 0 | 9.361287 | 89 | 9.373064 | 94 | 0.626936 | 9.988222 | 4 | 0 | 43 |
| | 10 | 9.361376 | 89 | 9.373159 | 95 | 0.626841 | 9.988218 | 5 | 50 | |
| | 20 | 9.361465 | 89 | 9.373253 | 94 | 0.626747 | 9.988213 | 5 | 40 | |
| | 30 | 9.361554 | 90 | 9.373347 | 94 | 0.626653 | 9.988208 | 5 | 30 | |
| | 40 | 9.361644 | 90 | 9.373441 | 94 | 0.626559 | 9.988203 | 5 | 20 | |
| | 50 | 9.361733 | 89 | 9.373535 | 94 | 0.626465 | 9.988198 | 5 | 10 | |
| 18 | 0 | 9.361822 | 89 | 9.373629 | 94 | 0.626371 | 9.988193 | 5 | 0 | 42 |
| | 10 | 9.361911 | 89 | 9.373723 | 94 | 0.626277 | 9.988188 | 5 | 50 | |
| | 20 | 9.362000 | 89 | 9.373817 | 94 | 0.626183 | 9.988183 | 5 | 40 | |
| | 30 | 9.362089 | 89 | 9.373911 | 94 | 0.626089 | 9.988178 | 5 | 30 | |
| | 40 | 9.362178 | 89 | 9.374005 | 94 | 0.625995 | 9.988173 | 5 | 20 | |
| | 50 | 9.362267 | 89 | 9.374099 | 94 | 0.625901 | 9.988168 | 5 | 10 | |
| 19 | 0 | 9.362356 | 89 | 9.374193 | 94 | 0.625807 | 9.988163 | 5 | 0 | 41 |
| | 10 | 9.362445 | 89 | 9.374287 | 94 | 0.625713 | 9.988158 | 5 | 50 | |
| | 20 | 9.362534 | 89 | 9.374381 | 94 | 0.625619 | 9.988153 | 5 | 40 | |
| | 30 | 9.362623 | 88 | 9.374475 | 94 | 0.625525 | 9.988148 | 5 | 30 | |
| | 40 | 9.362711 | 89 | 9.374569 | 94 | 0.625431 | 9.988143 | 5 | 20 | |
| | 50 | 9.362800 | 89 | 9.374662 | 93 | 0.625338 | 9.988138 | 5 | 10 | |
| 20 | 0 | 9.362889 | 89 | 9.374756 | 94 | 0.625244 | 9.988133 | 5 | 0 | 40 |

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1 9.4
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8 71.2
9 80.1

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|-------------|----|----------|-------|----------|----------|----|----|----|
| | 20 | 0 9.362889 | 89 | 9.374756 | 94 | 0.625244 | 9.988133 | 5 | 0 | 40 |
| | | 10 9.362978 | 89 | 9.374850 | 94 | 0.625150 | 9.988128 | 5 | 50 | |
| | | 20 9.363067 | 89 | 9.374944 | 94 | 0.625056 | 9.988123 | 5 | 40 | |
| | | 30 9.363156 | 88 | 9.375038 | 94 | 0.624962 | 9.988118 | 5 | 30 | |
| | | 40 9.363244 | 89 | 9.375131 | 94 | 0.624869 | 9.988113 | 5 | 20 | |
| 94 | | 50 9.363333 | 89 | 9.375225 | 94 | 0.624775 | 9.988108 | 5 | 10 | |
| 1 9.4 | 21 | 0 9.363422 | 89 | 9.375319 | 94 | 0.624681 | 9.988103 | 5 | 0 | 39 |
| 2 18.8 | | 10 9.363511 | 88 | 9.375413 | 93 | 0.624587 | 9.988098 | 5 | 50 | |
| 3 28.2 | | 20 9.363599 | 89 | 9.375506 | 93 | 0.624494 | 9.988093 | 5 | 40 | |
| 4 37.6 | | 30 9.363688 | 89 | 9.375600 | 94 | 0.624400 | 9.988088 | 5 | 30 | |
| 5 47.0 | | 40 9.363777 | 88 | 9.375694 | 93 | 0.624306 | 9.988083 | 5 | 20 | |
| 6 56.4 | | 50 9.363865 | 89 | 9.375787 | 94 | 0.624213 | 9.988078 | 5 | 10 | |
| 7 65.8 | 22 | 0 9.363954 | 88 | 9.375881 | 94 | 0.624119 | 9.988073 | 5 | 0 | 38 |
| 8 75.2 | | 10 9.364042 | 89 | 9.375975 | 93 | 0.624025 | 9.988068 | 5 | 50 | |
| 9 84.6 | | 20 9.364131 | 89 | 9.376068 | 93 | 0.623932 | 9.988063 | 5 | 40 | |
| | | 30 9.364220 | 88 | 9.376162 | 94 | 0.623838 | 9.988058 | 5 | 30 | |
| | | 40 9.364308 | 88 | 9.376255 | 93 | 0.623745 | 9.988053 | 5 | 20 | |
| | | 50 9.364397 | 89 | 9.376349 | 94 | 0.623651 | 9.988048 | 5 | 10 | |
| 93 | 23 | 0 9.364485 | 89 | 9.376442 | 93 | 0.623558 | 9.988043 | 5 | 0 | 37 |
| 1 9.3 | | 10 9.364574 | 88 | 9.376536 | 94 | 0.623464 | 9.988038 | 5 | 50 | |
| 2 18.6 | | 20 9.364662 | 89 | 9.376629 | 93 | 0.623371 | 9.988033 | 5 | 40 | |
| 3 27.9 | | 30 9.364751 | 88 | 9.376723 | 94 | 0.623277 | 9.988028 | 5 | 30 | |
| 4 37.2 | | 40 9.364839 | 88 | 9.376816 | 93 | 0.623184 | 9.988023 | 5 | 20 | |
| 5 46.5 | | 50 9.364927 | 89 | 9.376910 | 94 | 0.623090 | 9.988018 | 5 | 10 | |
| 6 55.8 | 24 | 0 9.365016 | 88 | 9.377003 | 93 | 0.622997 | 9.988013 | 5 | 0 | 36 |
| 7 65.1 | | 10 9.365104 | 89 | 9.377096 | 94 | 0.622904 | 9.988008 | 5 | 50 | |
| 8 74.4 | | 20 9.365193 | 88 | 9.377190 | 93 | 0.622810 | 9.988003 | 5 | 40 | |
| 9 83.7 | | 30 9.365281 | 88 | 9.377283 | 93 | 0.622717 | 9.987998 | 5 | 30 | |
| | | 40 9.365369 | 88 | 9.377376 | 94 | 0.622624 | 9.987993 | 5 | 20 | |
| | | 50 9.365457 | 89 | 9.377470 | 93 | 0.622530 | 9.987988 | 5 | 10 | |
| * | 25 | 0 9.365546 | 88 | 9.377563 | 93 | 0.622437 | 9.987983 | 5 | 0 | 35 |
| | | 10 9.365634 | 88 | 9.377656 | 94 | 0.622344 | 9.987978 | 5 | 50 | |
| | | 20 9.365722 | 88 | 9.377750 | 93 | 0.622250 | 9.987973 | 5 | 40 | |
| | | 30 9.365810 | 88 | 9.377843 | 93 | 0.622157 | 9.987968 | 5 | 30 | |
| | | 40 9.365899 | 89 | 9.377936 | 93 | 0.622064 | 9.987963 | 5 | 20 | |
| 89 | | 50 9.365987 | 88 | 9.378029 | 93 | 0.621971 | 9.987958 | 5 | 10 | |
| 1 8.9 | 26 | 0 9.366075 | 88 | 9.378122 | 93 | 0.621878 | 9.987953 | 6 | 0 | 34 |
| 2 17.8 | | 10 9.366163 | 88 | 9.378216 | 94 | 0.621784 | 9.987947 | 5 | 50 | |
| 3 26.7 | | 20 9.366251 | 88 | 9.378309 | 93 | 0.621691 | 9.987942 | 5 | 40 | |
| 4 35.6 | | 30 9.366339 | 88 | 9.378402 | 93 | 0.621598 | 9.987937 | 5 | 30 | |
| 5 44.5 | | 40 9.366427 | 88 | 9.378495 | 93 | 0.621505 | 9.987932 | 5 | 20 | |
| 6 53.4 | | 50 9.366516 | 89 | 9.378588 | 93 | 0.621412 | 9.987927 | 5 | 10 | |
| 7 62.3 | 27 | 0 9.366604 | 88 | 9.378681 | 93 | 0.621319 | 9.987922 | 5 | 0 | 33 |
| 8 71.2 | | 10 9.366692 | 88 | 9.378774 | 93 | 0.621226 | 9.987917 | 5 | 50 | |
| 9 80.1 | | 20 9.366780 | 88 | 9.378867 | 93 | 0.621133 | 9.987912 | 5 | 40 | |
| | | 30 9.366868 | 88 | 9.378960 | 93 | 0.621040 | 9.987907 | 5 | 30 | |
| | | 40 9.366956 | 88 | 9.379053 | 93 | 0.620947 | 9.987902 | 5 | 20 | |
| | | 50 9.367044 | 88 | 9.379146 | 93 | 0.620854 | 9.987897 | 5 | 10 | |
| 88 | 28 | 0 9.367131 | 87 | 9.379239 | 93 | 0.620761 | 9.987892 | 5 | 0 | 32 |
| 1 8.8 | | 10 9.367219 | 88 | 9.379332 | 93 | 0.620668 | 9.987887 | 5 | 50 | |
| 2 17.6 | | 20 9.367307 | 88 | 9.379425 | 93 | 0.620575 | 9.987882 | 5 | 40 | |
| 3 26.4 | | 30 9.367395 | 88 | 9.379518 | 93 | 0.620482 | 9.987877 | 5 | 30 | |
| 4 35.2 | | 40 9.367483 | 88 | 9.379611 | 93 | 0.620389 | 9.987872 | 5 | 20 | |
| 5 44.0 | | 50 9.367571 | 88 | 9.379704 | 93 | 0.620296 | 9.987867 | 5 | 10 | |
| 6 52.8 | 29 | 0 9.367659 | 88 | 9.379797 | 93 | 0.620203 | 9.987862 | 5 | 0 | 31 |
| 7 61.6 | | 10 9.367747 | 88 | 9.379890 | 93 | 0.620110 | 9.987857 | 5 | 50 | |
| 8 70.4 | | 20 9.367834 | 87 | 9.379983 | 92 | 0.620017 | 9.987852 | 5 | 40 | |
| 9 79.2 | | 30 9.367922 | 88 | 9.380075 | 92 | 0.619925 | 9.987847 | 5 | 30 | |
| | | 40 9.368010 | 88 | 9.380168 | 93 | 0.619832 | 9.987842 | 5 | 20 | |
| | | 50 9.368098 | 88 | 9.380261 | 93 | 0.619739 | 9.987837 | 5 | 10 | |
| | 30 | 0 9.368185 | 87 | 9.380354 | 93 | 0.619646 | 9.987832 | 5 | 0 | 30 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.368185 | 88 | 9.380354 | 92 | 0.619646 | 9.987832 | 6 | 0 | 30 |
| | 10 | 9.368273 | 88 | 9.380446 | 92 | 0.619554 | 9.987826 | 5 | 50 | |
| | 20 | 9.368361 | 88 | 9.380539 | 93 | 0.619461 | 9.987821 | 5 | 40 | |
| | 30 | 9.368448 | 88 | 9.380632 | 93 | 0.619368 | 9.987816 | 5 | 30 | |
| | 40 | 9.368536 | 88 | 9.380725 | 93 | 0.619275 | 9.987811 | 5 | 20 | |
| | 50 | 9.368624 | 88 | 9.380817 | 92 | 0.619183 | 9.987806 | 5 | 10 | |
| 31 | 0 | 9.368711 | 87 | 9.380910 | 93 | 0.619090 | 9.987801 | 5 | 0 | 29 |
| | 10 | 9.368799 | 88 | 9.381003 | 93 | 0.618997 | 9.987796 | 5 | 50 | |
| | 20 | 9.368886 | 88 | 9.381095 | 92 | 0.618905 | 9.987791 | 5 | 40 | |
| | 30 | 9.368974 | 88 | 9.381188 | 93 | 0.618812 | 9.987786 | 5 | 30 | |
| | 40 | 9.369061 | 87 | 9.381280 | 92 | 0.618720 | 9.987781 | 5 | 20 | |
| | 50 | 9.369149 | 88 | 9.381373 | 93 | 0.618627 | 9.987776 | 5 | 10 | |
| 32 | 0 | 9.369236 | 87 | 9.381466 | 93 | 0.618534 | 9.987771 | 5 | 0 | 28 |
| | 10 | 9.369324 | 88 | 9.381558 | 92 | 0.618442 | 9.987766 | 5 | 50 | |
| | 20 | 9.369411 | 88 | 9.381651 | 93 | 0.618349 | 9.987761 | 5 | 40 | |
| | 30 | 9.369499 | 88 | 9.381743 | 92 | 0.618257 | 9.987756 | 5 | 30 | |
| | 40 | 9.369586 | 87 | 9.381836 | 93 | 0.618164 | 9.987750 | 5 | 20 | |
| | 50 | 9.369673 | 88 | 9.381928 | 92 | 0.618072 | 9.987745 | 5 | 10 | |
| 33 | 0 | 9.369761 | 87 | 9.382020 | 92 | 0.617980 | 9.987740 | 5 | 0 | 27 |
| | 10 | 9.369848 | 88 | 9.382113 | 93 | 0.617887 | 9.987735 | 5 | 50 | |
| | 20 | 9.369936 | 87 | 9.382205 | 92 | 0.617795 | 9.987730 | 5 | 40 | |
| | 30 | 9.370023 | 87 | 9.382298 | 93 | 0.617702 | 9.987725 | 5 | 30 | |
| | 40 | 9.370110 | 87 | 9.382390 | 92 | 0.617610 | 9.987720 | 5 | 20 | |
| | 50 | 9.370197 | 88 | 9.382482 | 92 | 0.617518 | 9.987715 | 5 | 10 | |
| 34 | 0 | 9.370285 | 87 | 9.382575 | 93 | 0.617425 | 9.987710 | 5 | 0 | 26 |
| | 10 | 9.370372 | 87 | 9.382667 | 92 | 0.617333 | 9.987705 | 5 | 50 | |
| | 20 | 9.370459 | 87 | 9.382759 | 92 | 0.617241 | 9.987700 | 5 | 40 | |
| | 30 | 9.370546 | 87 | 9.382852 | 93 | 0.617148 | 9.987695 | 5 | 30 | |
| | 40 | 9.370634 | 88 | 9.382944 | 92 | 0.617056 | 9.987690 | 5 | 20 | |
| | 50 | 9.370721 | 87 | 9.383036 | 93 | 0.616964 | 9.987684 | 5 | 10 | |
| 35 | 0 | 9.370808 | 87 | 9.383129 | 92 | 0.616871 | 9.987679 | 5 | 0 | 25 |
| | 10 | 9.370895 | 87 | 9.383221 | 92 | 0.616779 | 9.987674 | 5 | 50 | |
| | 20 | 9.370982 | 87 | 9.383313 | 92 | 0.616687 | 9.987669 | 5 | 40 | |
| | 30 | 9.371069 | 87 | 9.383405 | 92 | 0.616595 | 9.987664 | 5 | 30 | |
| | 40 | 9.371156 | 87 | 9.383497 | 92 | 0.616503 | 9.987659 | 5 | 20 | |
| | 50 | 9.371243 | 87 | 9.383589 | 92 | 0.616411 | 9.987654 | 5 | 10 | |
| 36 | 0 | 9.371330 | 87 | 9.383682 | 93 | 0.616318 | 9.987649 | 5 | 0 | 24 |
| | 10 | 9.371417 | 87 | 9.383774 | 92 | 0.616226 | 9.987644 | 5 | 50 | |
| | 20 | 9.371504 | 87 | 9.383866 | 92 | 0.616134 | 9.987639 | 5 | 40 | |
| | 30 | 9.371591 | 87 | 9.383958 | 92 | 0.616042 | 9.987634 | 5 | 30 | |
| | 40 | 9.371678 | 87 | 9.384050 | 92 | 0.615950 | 9.987628 | 5 | 20 | |
| | 50 | 9.371765 | 87 | 9.384142 | 92 | 0.615858 | 9.987623 | 5 | 10 | |
| 37 | 0 | 9.371852 | 87 | 9.384234 | 92 | 0.615766 | 9.987618 | 5 | 0 | 23 |
| | 10 | 9.371939 | 87 | 9.384326 | 92 | 0.615674 | 9.987613 | 5 | 50 | |
| | 20 | 9.372026 | 87 | 9.384418 | 92 | 0.615582 | 9.987608 | 5 | 40 | |
| | 30 | 9.372113 | 87 | 9.384510 | 92 | 0.615490 | 9.987603 | 5 | 30 | |
| | 40 | 9.372200 | 87 | 9.384602 | 92 | 0.615398 | 9.987598 | 5 | 20 | |
| | 50 | 9.372287 | 87 | 9.384694 | 92 | 0.615306 | 9.987593 | 5 | 10 | |
| 38 | 0 | 9.372373 | 86 | 9.384786 | 92 | 0.615214 | 9.987588 | 5 | 0 | 22 |
| | 10 | 9.372460 | 87 | 9.384878 | 92 | 0.615122 | 9.987583 | 5 | 50 | |
| | 20 | 9.372547 | 87 | 9.384970 | 92 | 0.615030 | 9.987577 | 5 | 40 | |
| | 30 | 9.372634 | 87 | 9.385062 | 92 | 0.614938 | 9.987572 | 5 | 30 | |
| | 40 | 9.372721 | 87 | 9.385153 | 91 | 0.614847 | 9.987567 | 5 | 20 | |
| | 50 | 9.372807 | 86 | 9.385245 | 92 | 0.614755 | 9.987562 | 5 | 10 | |
| 39 | 0 | 9.372894 | 87 | 9.385337 | 92 | 0.614663 | 9.987557 | 5 | 0 | 21 |
| | 10 | 9.372981 | 87 | 9.385429 | 92 | 0.614571 | 9.987552 | 5 | 50 | |
| | 20 | 9.373067 | 86 | 9.385521 | 92 | 0.614479 | 9.987547 | 5 | 40 | |
| | 30 | 9.373154 | 87 | 9.385612 | 91 | 0.614388 | 9.987542 | 5 | 30 | |
| | 40 | 9.373241 | 86 | 9.385704 | 92 | 0.614296 | 9.987537 | 5 | 20 | |
| | 50 | 9.373327 | 87 | 9.385796 | 92 | 0.614204 | 9.987531 | 5 | 10 | |
| 40 | 0 | 9.373414 | 87 | 9.385888 | 92 | 0.614112 | 9.987526 | 5 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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1 9.2
2 18.4
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4 36.8
5 46.0
6 55.2
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8 73.6
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7 60.9
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9 78.3

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2 17.2
3 25.8
4 34.4
5 43.0
6 51.6
7 60.2
8 68.8
9 77.4

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|-------|----------|----------|----|----|----|
| | 40 | 0 9.373414 | 86 | 9.385888 | 91 | 0.614112 | 9.987526 | 5 | 0 | 20 |
| | 10 | 9.373500 | 87 | 9.385979 | 92 | 0.614021 | 9.987521 | 5 | 50 | |
| | 20 | 9.373587 | 87 | 9.386071 | 92 | 0.613929 | 9.987516 | 5 | 40 | |
| | 30 | 9.373674 | 86 | 9.386163 | 91 | 0.613837 | 9.987511 | 5 | 30 | |
| 92 | 40 | 9.373760 | 87 | 9.386254 | 92 | 0.613746 | 9.987506 | 5 | 20 | |
| 1 9.2 | 50 | 9.373847 | 86 | 9.386346 | 92 | 0.613654 | 9.987501 | 5 | 10 | |
| 2 18.4 | 41 | 0 9.373933 | 87 | 9.386438 | 91 | 0.613562 | 9.987496 | 6 | 0 | 19 |
| 3 27.6 | 10 | 9.374020 | 86 | 9.386529 | 92 | 0.613471 | 9.987490 | 5 | 50 | |
| 4 36.8 | 20 | 9.374106 | 86 | 9.386621 | 91 | 0.613379 | 9.987485 | 5 | 40 | |
| 5 46.0 | 30 | 9.374192 | 87 | 9.386712 | 92 | 0.613288 | 9.987480 | 5 | 30 | |
| 6 55.2 | 40 | 9.374279 | 86 | 9.386804 | 91 | 0.613196 | 9.987475 | 5 | 20 | |
| 7 64.4 | 50 | 9.374365 | 87 | 9.386895 | 92 | 0.613105 | 9.987470 | 5 | 10 | |
| 8 73.6 | 42 | 0 9.374452 | 86 | 9.386987 | 91 | 0.613013 | 9.987465 | 5 | 0 | 18 |
| 9 82.8 | 10 | 9.374538 | 86 | 9.387078 | 92 | 0.612922 | 9.987460 | 6 | 50 | |
| | 20 | 9.374624 | 87 | 9.387170 | 91 | 0.612830 | 9.987454 | 5 | 40 | |
| | 30 | 9.374711 | 86 | 9.387261 | 92 | 0.612739 | 9.987449 | 5 | 30 | |
| | 40 | 9.374797 | 86 | 9.387353 | 91 | 0.612647 | 9.987444 | 5 | 20 | |
| | 50 | 9.374883 | 87 | 9.387444 | 92 | 0.612556 | 9.987439 | 5 | 10 | |
| 91 9.1 | 43 | 0 9.374970 | 86 | 9.387536 | 91 | 0.612464 | 9.987434 | 5 | 0 | 17 |
| 1 18.2 | 10 | 9.375056 | 86 | 9.387627 | 92 | 0.612373 | 9.987429 | 5 | 50 | |
| 3 27.3 | 20 | 9.375142 | 86 | 9.387718 | 91 | 0.612282 | 9.987424 | 5 | 40 | |
| 4 36.4 | 30 | 9.375228 | 86 | 9.387810 | 92 | 0.612190 | 9.987419 | 6 | 30 | |
| 5 45.5 | 40 | 9.375314 | 87 | 9.387901 | 91 | 0.612099 | 9.987413 | 5 | 20 | |
| 6 54.6 | 50 | 9.375401 | 86 | 9.387992 | 92 | 0.612008 | 9.987408 | 5 | 10 | |
| 7 63.7 | 44 | 0 9.375487 | 86 | 9.388084 | 91 | 0.611916 | 9.987403 | 5 | 0 | 16 |
| 8 72.8 | 10 | 9.375573 | 86 | 9.388175 | 92 | 0.611825 | 9.987398 | 5 | 50 | |
| 9 81.9 | 20 | 9.375659 | 86 | 9.388266 | 91 | 0.611734 | 9.987393 | 5 | 40 | |
| | 30 | 9.375745 | 86 | 9.388358 | 92 | 0.611642 | 9.987388 | 5 | 30 | |
| | 40 | 9.375831 | 86 | 9.388449 | 91 | 0.611551 | 9.987383 | 6 | 20 | |
| | 50 | 9.375917 | 86 | 9.388540 | 92 | 0.611460 | 9.987377 | 5 | 10 | |
| * | 45 | 0 9.376003 | 86 | 9.388631 | 91 | 0.611369 | 9.987372 | 5 | 0 | 15 |
| | 10 | 9.376089 | 86 | 9.388722 | 92 | 0.611278 | 9.987367 | 5 | 50 | |
| | 20 | 9.376175 | 86 | 9.388814 | 91 | 0.611186 | 9.987362 | 5 | 40 | |
| | 30 | 9.376261 | 86 | 9.388905 | 92 | 0.611095 | 9.987357 | 5 | 30 | |
| | 40 | 9.376347 | 86 | 9.388996 | 91 | 0.611004 | 9.987352 | 6 | 20 | |
| 87 | 50 | 9.376433 | 86 | 9.389087 | 92 | 0.610913 | 9.987346 | 5 | 10 | |
| 1 8.7 | 46 | 0 9.376519 | 86 | 9.389178 | 91 | 0.610822 | 9.987341 | 5 | 0 | 14 |
| 2 17.4 | 10 | 9.376605 | 86 | 9.389269 | 92 | 0.610731 | 9.987336 | 5 | 50 | |
| 3 26.1 | 20 | 9.376691 | 86 | 9.389360 | 91 | 0.610640 | 9.987331 | 5 | 40 | |
| 4 34.8 | 30 | 9.376777 | 86 | 9.389451 | 92 | 0.610549 | 9.987326 | 5 | 30 | |
| 5 43.5 | 40 | 9.376863 | 86 | 9.389542 | 91 | 0.610458 | 9.987321 | 6 | 20 | |
| 6 52.2 | 50 | 9.376949 | 86 | 9.389633 | 92 | 0.610367 | 9.987315 | 5 | 10 | |
| 7 60.9 | 47 | 0 9.377035 | 85 | 9.389724 | 91 | 0.610276 | 9.987310 | 5 | 0 | 13 |
| 8 69.6 | 10 | 9.377120 | 86 | 9.389815 | 92 | 0.610185 | 9.987305 | 5 | 50 | |
| 9 78.3 | 20 | 9.377206 | 86 | 9.389906 | 91 | 0.610094 | 9.987300 | 5 | 40 | |
| | 30 | 9.377292 | 86 | 9.389997 | 92 | 0.610003 | 9.987295 | 5 | 30 | |
| | 40 | 9.377378 | 86 | 9.390088 | 91 | 0.609912 | 9.987290 | 6 | 20 | |
| | 50 | 9.377464 | 86 | 9.390179 | 92 | 0.609821 | 9.987284 | 5 | 10 | |
| | 48 | 0 9.377549 | 85 | 9.390270 | 91 | 0.609730 | 9.987279 | 5 | 0 | 12 |
| 86 | 10 | 9.377635 | 86 | 9.390361 | 92 | 0.609639 | 9.987274 | 5 | 50 | |
| 1 8.6 | 20 | 9.377721 | 86 | 9.390452 | 91 | 0.609548 | 9.987269 | 5 | 40 | |
| 2 17.2 | 30 | 9.377806 | 85 | 9.390543 | 92 | 0.609457 | 9.987264 | 5 | 30 | |
| 3 25.8 | 40 | 9.377892 | 86 | 9.390633 | 91 | 0.609367 | 9.987259 | 6 | 20 | |
| 4 34.4 | 50 | 9.377978 | 86 | 9.390724 | 92 | 0.609276 | 9.987253 | 5 | 10 | |
| 5 43.0 | 49 | 0 9.378063 | 85 | 9.390815 | 91 | 0.609185 | 9.987248 | 5 | 0 | 11 |
| 6 51.6 | 10 | 9.378149 | 86 | 9.390906 | 92 | 0.609094 | 9.987243 | 5 | 50 | |
| 7 60.2 | 20 | 9.378235 | 86 | 9.390997 | 91 | 0.609003 | 9.987238 | 5 | 40 | |
| 8 68.8 | 30 | 9.378320 | 85 | 9.391087 | 92 | 0.608913 | 9.987233 | 5 | 30 | |
| 9 77.4 | 40 | 9.378406 | 86 | 9.391178 | 91 | 0.608822 | 9.987228 | 6 | 20 | |
| | 50 | 9.378491 | 85 | 9.391269 | 92 | 0.608731 | 9.987222 | 5 | 10 | |
| | 50 | 0 9.378577 | 86 | 9.391360 | 91 | 0.608640 | 9.987217 | 5 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.378577 | 85 | 9.391360 | 90 | 0.608640 | 9.987217 | 5 | 0 | 10 |
| | 10 | 9.378662 | 86 | 9.391450 | 91 | 0.608550 | 9.987212 | 5 | 50 | |
| | 20 | 9.378748 | 85 | 9.391541 | 91 | 0.608459 | 9.987207 | 5 | 40 | |
| | 30 | 9.378833 | 86 | 9.391632 | 90 | 0.608368 | 9.987202 | 5 | 30 | |
| | 40 | 9.378919 | 85 | 9.391722 | 91 | 0.608278 | 9.987196 | 5 | 20 | |
| | 50 | 9.379004 | 85 | 9.391813 | 90 | 0.608187 | 9.987191 | 5 | 10 | |
| 51 | 0 | 9.379089 | 86 | 9.391903 | 91 | 0.608097 | 9.987186 | 5 | 0 | 9 |
| | 10 | 9.379175 | 85 | 9.391994 | 91 | 0.608006 | 9.987181 | 5 | 50 | |
| | 20 | 9.379260 | 86 | 9.392085 | 90 | 0.607915 | 9.987176 | 5 | 40 | |
| | 30 | 9.379346 | 85 | 9.392175 | 91 | 0.607825 | 9.987170 | 5 | 30 | |
| | 40 | 9.379431 | 85 | 9.392266 | 90 | 0.607734 | 9.987165 | 5 | 20 | |
| | 50 | 9.379516 | 85 | 9.392356 | 91 | 0.607644 | 9.987160 | 5 | 10 | |
| 52 | 0 | 9.379601 | 86 | 9.392447 | 90 | 0.607553 | 9.987155 | 5 | 0 | 8 |
| | 10 | 9.379687 | 85 | 9.392537 | 91 | 0.607463 | 9.987150 | 5 | 50 | |
| | 20 | 9.379772 | 85 | 9.392628 | 90 | 0.607372 | 9.987144 | 5 | 40 | |
| | 30 | 9.379857 | 86 | 9.392718 | 90 | 0.607282 | 9.987139 | 5 | 30 | |
| | 40 | 9.379942 | 85 | 9.392808 | 91 | 0.607192 | 9.987134 | 5 | 20 | |
| | 50 | 9.380028 | 85 | 9.392899 | 90 | 0.607101 | 9.987129 | 5 | 10 | |
| 53 | 0 | 9.380113 | 85 | 9.392989 | 91 | 0.607011 | 9.987124 | 5 | 0 | 7 |
| | 10 | 9.380198 | 85 | 9.393080 | 90 | 0.606920 | 9.987118 | 5 | 50 | |
| | 20 | 9.380283 | 85 | 9.393170 | 90 | 0.606830 | 9.987113 | 5 | 40 | |
| | 30 | 9.380368 | 86 | 9.393260 | 91 | 0.606740 | 9.987108 | 5 | 30 | |
| | 40 | 9.380454 | 85 | 9.393351 | 90 | 0.606649 | 9.987103 | 5 | 20 | |
| | 50 | 9.380539 | 85 | 9.393441 | 90 | 0.606559 | 9.987098 | 5 | 10 | |
| 54 | 0 | 9.380624 | 85 | 9.393531 | 91 | 0.606469 | 9.987092 | 5 | 0 | 6 |
| | 10 | 9.380709 | 85 | 9.393622 | 90 | 0.606378 | 9.987087 | 5 | 50 | |
| | 20 | 9.380794 | 85 | 9.393712 | 90 | 0.606288 | 9.987082 | 5 | 40 | |
| | 30 | 9.380879 | 85 | 9.393802 | 90 | 0.606198 | 9.987077 | 5 | 30 | |
| | 40 | 9.380964 | 85 | 9.393892 | 91 | 0.606108 | 9.987072 | 5 | 20 | |
| | 50 | 9.381049 | 85 | 9.393983 | 90 | 0.606017 | 9.987066 | 5 | 10 | |
| 55 | 0 | 9.381134 | 85 | 9.394073 | 90 | 0.605927 | 9.987061 | 5 | 0 | 5 |
| | 10 | 9.381219 | 85 | 9.394163 | 90 | 0.605837 | 9.987056 | 5 | 50 | |
| | 20 | 9.381304 | 85 | 9.394253 | 90 | 0.605747 | 9.987051 | 5 | 40 | |
| | 30 | 9.381389 | 85 | 9.394343 | 90 | 0.605657 | 9.987045 | 5 | 30 | |
| | 40 | 9.381474 | 85 | 9.394433 | 90 | 0.605567 | 9.987040 | 5 | 20 | |
| | 50 | 9.381559 | 85 | 9.394523 | 90 | 0.605477 | 9.987035 | 5 | 10 | |
| 56 | 0 | 9.381643 | 84 | 9.394614 | 91 | 0.605386 | 9.987030 | 5 | 0 | 4 |
| | 10 | 9.381728 | 85 | 9.394704 | 90 | 0.605296 | 9.987025 | 5 | 50 | |
| | 20 | 9.381813 | 85 | 9.394794 | 90 | 0.605206 | 9.987019 | 5 | 40 | |
| | 30 | 9.381898 | 85 | 9.394884 | 90 | 0.605116 | 9.987014 | 5 | 30 | |
| | 40 | 9.381983 | 85 | 9.394974 | 90 | 0.605026 | 9.987009 | 5 | 20 | |
| | 50 | 9.382068 | 85 | 9.395064 | 90 | 0.604936 | 9.987004 | 5 | 10 | |
| 57 | 0 | 9.382152 | 84 | 9.395154 | 90 | 0.604846 | 9.986998 | 5 | 0 | 3 |
| | 10 | 9.382237 | 85 | 9.395244 | 90 | 0.604756 | 9.986993 | 5 | 50 | |
| | 20 | 9.382322 | 85 | 9.395334 | 90 | 0.604666 | 9.986988 | 5 | 40 | |
| | 30 | 9.382406 | 84 | 9.395424 | 90 | 0.604576 | 9.986983 | 5 | 30 | |
| | 40 | 9.382491 | 85 | 9.395514 | 90 | 0.604486 | 9.986978 | 5 | 20 | |
| | 50 | 9.382576 | 85 | 9.395604 | 90 | 0.604396 | 9.986972 | 5 | 10 | |
| 58 | 0 | 9.382661 | 85 | 9.395694 | 90 | 0.604306 | 9.986967 | 5 | 0 | 2 |
| | 10 | 9.382745 | 84 | 9.395783 | 89 | 0.604217 | 9.986962 | 5 | 50 | |
| | 20 | 9.382830 | 85 | 9.395873 | 90 | 0.604127 | 9.986957 | 5 | 40 | |
| | 30 | 9.382914 | 84 | 9.395963 | 90 | 0.604037 | 9.986951 | 5 | 30 | |
| | 40 | 9.382999 | 85 | 9.396053 | 90 | 0.603947 | 9.986946 | 5 | 20 | |
| | 50 | 9.383084 | 85 | 9.396143 | 90 | 0.603857 | 9.986941 | 5 | 10 | |
| 59 | 0 | 9.383168 | 84 | 9.396233 | 89 | 0.603767 | 9.986936 | 5 | 0 | 1 |
| | 10 | 9.383253 | 85 | 9.396322 | 90 | 0.603678 | 9.986930 | 5 | 50 | |
| | 20 | 9.383337 | 84 | 9.396412 | 90 | 0.603588 | 9.986925 | 5 | 40 | |
| | 30 | 9.383422 | 85 | 9.396502 | 90 | 0.603498 | 9.986920 | 5 | 30 | |
| | 40 | 9.383506 | 84 | 9.396592 | 90 | 0.603408 | 9.986915 | 5 | 20 | |
| | 50 | 9.383591 | 85 | 9.396681 | 89 | 0.603319 | 9.986909 | 5 | 10 | |
| 60 | 0 | 9.383675 | 84 | 9.396771 | 90 | 0.603229 | 9.986904 | 5 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

90
1 9.0
2 18.0
3 27.0
4 36.0
5 45.0
6 54.0
7 63.0
8 72.0
9 81.0

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2 17.8
3 26.7
4 35.6
5 44.5
6 53.4
7 62.3
8 71.2
9 80.1

*

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1 8.5
2 17.0
3 25.5
4 34.0
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6 51.0
7 59.5
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1 8.4
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6 50.4
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9 75.6

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 0 | 0 | 9.383675 | 85 | 9.396771 | 90 | 0.603229 | 9.986904 | 5 | 0 | 60 |
| | 10 | 9.383760 | 84 | 9.396861 | 89 | 0.603139 | 9.986899 | 5 | 50 | |
| | 20 | 9.383844 | 84 | 9.396950 | 89 | 0.603050 | 9.986894 | 5 | 40 | |
| | 30 | 9.383928 | 85 | 9.397040 | 90 | 0.602960 | 9.986888 | 5 | 30 | |
| | 40 | 9.384013 | 84 | 9.397130 | 90 | 0.602870 | 9.986883 | 5 | 20 | |
| | 50 | 9.384097 | 85 | 9.397219 | 89 | 0.602781 | 9.986878 | 5 | 10 | |
| 1 | 0 | 9.384182 | 84 | 9.397309 | 90 | 0.602691 | 9.986873 | 6 | 0 | 59 |
| | 10 | 9.384266 | 84 | 9.397399 | 89 | 0.602601 | 9.986867 | 5 | 50 | |
| | 20 | 9.384350 | 85 | 9.397488 | 89 | 0.602512 | 9.986862 | 5 | 40 | |
| | 30 | 9.384435 | 84 | 9.397578 | 89 | 0.602422 | 9.986857 | 5 | 30 | |
| | 40 | 9.384519 | 84 | 9.397667 | 90 | 0.602333 | 9.986852 | 5 | 20 | |
| | 50 | 9.384603 | 84 | 9.397757 | 90 | 0.602243 | 9.986846 | 5 | 10 | |
| 2 | 0 | 9.384687 | 85 | 9.397846 | 90 | 0.602154 | 9.986841 | 5 | 0 | 58 |
| | 10 | 9.384772 | 84 | 9.397936 | 89 | 0.602064 | 9.986836 | 5 | 50 | |
| | 20 | 9.384856 | 84 | 9.398025 | 89 | 0.601975 | 9.986831 | 5 | 40 | |
| | 30 | 9.384940 | 84 | 9.398115 | 89 | 0.601885 | 9.986825 | 5 | 30 | |
| | 40 | 9.385024 | 84 | 9.398204 | 90 | 0.601796 | 9.986820 | 5 | 20 | |
| | 50 | 9.385108 | 84 | 9.398294 | 90 | 0.601706 | 9.986815 | 5 | 10 | |
| 3 | 0 | 9.385192 | 85 | 9.398383 | 89 | 0.601617 | 9.986809 | 5 | 0 | 57 |
| | 10 | 9.385277 | 84 | 9.398472 | 89 | 0.601528 | 9.986804 | 5 | 50 | |
| | 20 | 9.385361 | 84 | 9.398562 | 90 | 0.601438 | 9.986799 | 5 | 40 | |
| | 30 | 9.385445 | 84 | 9.398651 | 89 | 0.601349 | 9.986794 | 5 | 30 | |
| | 40 | 9.385529 | 84 | 9.398740 | 90 | 0.601260 | 9.986788 | 5 | 20 | |
| | 50 | 9.385613 | 84 | 9.398830 | 90 | 0.601170 | 9.986783 | 5 | 10 | |
| 4 | 0 | 9.385697 | 84 | 9.398919 | 89 | 0.601081 | 9.986778 | 5 | 0 | 56 |
| | 10 | 9.385781 | 84 | 9.399008 | 89 | 0.600992 | 9.986773 | 5 | 50 | |
| | 20 | 9.385865 | 84 | 9.399098 | 90 | 0.600902 | 9.986767 | 5 | 40 | |
| | 30 | 9.385949 | 84 | 9.399187 | 89 | 0.600813 | 9.986762 | 5 | 30 | |
| | 40 | 9.386033 | 84 | 9.399276 | 89 | 0.600724 | 9.986757 | 5 | 20 | |
| | 50 | 9.386117 | 84 | 9.399365 | 90 | 0.600635 | 9.986751 | 5 | 10 | |
| 5 | 0 | 9.386201 | 84 | 9.399455 | 89 | 0.600545 | 9.986746 | 5 | 0 | 55 |
| | 10 | 9.386285 | 84 | 9.399544 | 89 | 0.600456 | 9.986741 | 5 | 50 | |
| | 20 | 9.386369 | 83 | 9.399633 | 89 | 0.600367 | 9.986736 | 5 | 40 | |
| | 30 | 9.386452 | 83 | 9.399722 | 89 | 0.600278 | 9.986730 | 5 | 30 | |
| | 40 | 9.386536 | 84 | 9.399811 | 89 | 0.600189 | 9.986725 | 5 | 20 | |
| | 50 | 9.386620 | 84 | 9.399900 | 90 | 0.600100 | 9.986720 | 5 | 10 | |
| 6 | 0 | 9.386704 | 84 | 9.399990 | 90 | 0.600010 | 9.986714 | 5 | 0 | 54 |
| | 10 | 9.386788 | 84 | 9.400079 | 89 | 0.599921 | 9.986709 | 5 | 50 | |
| | 20 | 9.386872 | 84 | 9.400168 | 89 | 0.599832 | 9.986704 | 5 | 40 | |
| | 30 | 9.386955 | 83 | 9.400257 | 89 | 0.599743 | 9.986699 | 5 | 30 | |
| | 40 | 9.387039 | 84 | 9.400346 | 89 | 0.599654 | 9.986693 | 5 | 20 | |
| | 50 | 9.387123 | 84 | 9.400435 | 89 | 0.599565 | 9.986688 | 5 | 10 | |
| 7 | 0 | 9.387207 | 84 | 9.400524 | 89 | 0.599476 | 9.986683 | 5 | 0 | 53 |
| | 10 | 9.387290 | 83 | 9.400613 | 89 | 0.599387 | 9.986677 | 5 | 50 | |
| | 20 | 9.387374 | 84 | 9.400702 | 89 | 0.599298 | 9.986672 | 5 | 40 | |
| | 30 | 9.387458 | 84 | 9.400791 | 89 | 0.599209 | 9.986667 | 5 | 30 | |
| | 40 | 9.387541 | 83 | 9.400880 | 89 | 0.599120 | 9.986661 | 5 | 20 | |
| | 50 | 9.387625 | 84 | 9.400969 | 89 | 0.599031 | 9.986655 | 5 | 10 | |
| 8 | 0 | 9.387709 | 84 | 9.401058 | 89 | 0.598942 | 9.986650 | 5 | 0 | 52 |
| | 10 | 9.387792 | 83 | 9.401147 | 89 | 0.598853 | 9.986645 | 5 | 50 | |
| | 20 | 9.387876 | 84 | 9.401236 | 89 | 0.598764 | 9.986640 | 5 | 40 | |
| | 30 | 9.387959 | 83 | 9.401325 | 89 | 0.598675 | 9.986635 | 5 | 30 | |
| | 40 | 9.388043 | 84 | 9.401413 | 89 | 0.598587 | 9.986630 | 5 | 20 | |
| | 50 | 9.388127 | 84 | 9.401502 | 89 | 0.598498 | 9.986624 | 5 | 10 | |
| 9 | 0 | 9.388210 | 83 | 9.401591 | 89 | 0.598409 | 9.986619 | 5 | 0 | 51 |
| | 10 | 9.388294 | 83 | 9.401680 | 89 | 0.598320 | 9.986614 | 5 | 50 | |
| | 20 | 9.388377 | 84 | 9.401769 | 89 | 0.598231 | 9.986608 | 5 | 40 | |
| | 30 | 9.388461 | 84 | 9.401857 | 89 | 0.598143 | 9.986603 | 5 | 30 | |
| | 40 | 9.388544 | 83 | 9.401946 | 89 | 0.598054 | 9.986598 | 5 | 20 | |
| | 50 | 9.388627 | 83 | 9.402035 | 89 | 0.597965 | 9.986593 | 5 | 10 | |
| 10 | 0 | 9.388711 | 84 | 9.402124 | 89 | 0.597876 | 9.986587 | 5 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.388711 | 83 | 9.402124 | 88 | 0.597876 | 9.986587 | 5 | 0 | 50 |
| 10 | 10 | 9.388794 | 84 | 9.402212 | 89 | 0.597788 | 9.986582 | 5 | 50 | |
| 20 | 0 | 9.388878 | 85 | 9.402301 | 89 | 0.597699 | 9.986577 | 5 | 60 | |
| 30 | 0 | 9.388961 | 86 | 9.402390 | 88 | 0.597610 | 9.986571 | 5 | 40 | |
| 40 | 0 | 9.389044 | 87 | 9.402478 | 89 | 0.597522 | 9.986566 | 5 | 20 | |
| 50 | 0 | 9.389128 | 88 | 9.402567 | 89 | 0.597433 | 9.986561 | 5 | 10 | |
| 11 | 0 | 9.389211 | 89 | 9.402656 | 88 | 0.597344 | 9.986555 | 5 | 0 | 49 |
| 10 | 10 | 9.389294 | 84 | 9.402744 | 89 | 0.597256 | 9.986550 | 5 | 50 | |
| 20 | 0 | 9.389378 | 85 | 9.402833 | 89 | 0.597167 | 9.986545 | 5 | 60 | |
| 30 | 0 | 9.389461 | 86 | 9.402922 | 88 | 0.597078 | 9.986539 | 5 | 40 | |
| 40 | 0 | 9.389544 | 87 | 9.403010 | 89 | 0.596990 | 9.986534 | 5 | 20 | |
| 50 | 0 | 9.389627 | 88 | 9.403099 | 88 | 0.596901 | 9.986529 | 5 | 10 | |
| 12 | 0 | 9.389711 | 89 | 9.403187 | 89 | 0.596813 | 9.986523 | 5 | 0 | 48 |
| 10 | 10 | 9.389794 | 84 | 9.403276 | 88 | 0.596724 | 9.986518 | 5 | 50 | |
| 20 | 0 | 9.389877 | 85 | 9.403364 | 89 | 0.596636 | 9.986513 | 5 | 60 | |
| 30 | 0 | 9.389960 | 86 | 9.403453 | 88 | 0.596547 | 9.986507 | 5 | 40 | |
| 40 | 0 | 9.390043 | 87 | 9.403541 | 89 | 0.596459 | 9.986502 | 5 | 20 | |
| 50 | 0 | 9.390126 | 88 | 9.403630 | 88 | 0.596370 | 9.986497 | 5 | 10 | |
| 13 | 0 | 9.390210 | 89 | 9.403718 | 89 | 0.596282 | 9.986491 | 5 | 0 | 47 |
| 10 | 10 | 9.390293 | 84 | 9.403807 | 88 | 0.596193 | 9.986486 | 5 | 50 | |
| 20 | 0 | 9.390376 | 85 | 9.403895 | 89 | 0.596105 | 9.986481 | 5 | 60 | |
| 30 | 0 | 9.390459 | 86 | 9.403983 | 88 | 0.596017 | 9.986475 | 5 | 40 | |
| 40 | 0 | 9.390542 | 87 | 9.404072 | 89 | 0.595928 | 9.986470 | 5 | 20 | |
| 50 | 0 | 9.390625 | 88 | 9.404160 | 88 | 0.595840 | 9.986465 | 5 | 10 | |
| 14 | 0 | 9.390708 | 89 | 9.404249 | 88 | 0.595751 | 9.986459 | 5 | 0 | 46 |
| 10 | 10 | 9.390791 | 84 | 9.404337 | 88 | 0.595663 | 9.986454 | 5 | 50 | |
| 20 | 0 | 9.390874 | 85 | 9.404425 | 89 | 0.595575 | 9.986449 | 5 | 60 | |
| 30 | 0 | 9.390957 | 86 | 9.404514 | 88 | 0.595486 | 9.986443 | 5 | 40 | |
| 40 | 0 | 9.391040 | 87 | 9.404602 | 89 | 0.595398 | 9.986438 | 5 | 20 | |
| 50 | 0 | 9.391123 | 88 | 9.404690 | 88 | 0.595310 | 9.986433 | 5 | 10 | |
| 15 | 0 | 9.391206 | 89 | 9.404778 | 89 | 0.595222 | 9.986427 | 5 | 0 | 45 |
| 10 | 10 | 9.391289 | 84 | 9.404867 | 88 | 0.595133 | 9.986422 | 5 | 50 | |
| 20 | 0 | 9.391371 | 85 | 9.404955 | 89 | 0.595045 | 9.986417 | 5 | 60 | |
| 30 | 0 | 9.391454 | 86 | 9.405043 | 88 | 0.594957 | 9.986411 | 5 | 40 | |
| 40 | 0 | 9.391537 | 87 | 9.405131 | 89 | 0.594869 | 9.986406 | 5 | 20 | |
| 50 | 0 | 9.391620 | 88 | 9.405219 | 88 | 0.594781 | 9.986401 | 5 | 10 | |
| 16 | 0 | 9.391703 | 89 | 9.405308 | 88 | 0.594692 | 9.986395 | 5 | 0 | 44 |
| 10 | 10 | 9.391786 | 84 | 9.405396 | 88 | 0.594604 | 9.986390 | 5 | 50 | |
| 20 | 0 | 9.391868 | 85 | 9.405484 | 89 | 0.594516 | 9.986384 | 5 | 60 | |
| 30 | 0 | 9.391951 | 86 | 9.405572 | 88 | 0.594428 | 9.986379 | 5 | 40 | |
| 40 | 0 | 9.392034 | 87 | 9.405660 | 89 | 0.594340 | 9.986374 | 5 | 20 | |
| 50 | 0 | 9.392117 | 88 | 9.405748 | 88 | 0.594252 | 9.986368 | 5 | 10 | |
| 17 | 0 | 9.392199 | 89 | 9.405836 | 88 | 0.594164 | 9.986363 | 5 | 0 | 43 |
| 10 | 10 | 9.392282 | 84 | 9.405924 | 88 | 0.594076 | 9.986358 | 5 | 50 | |
| 20 | 0 | 9.392365 | 85 | 9.406012 | 89 | 0.593988 | 9.986352 | 5 | 60 | |
| 30 | 0 | 9.392447 | 86 | 9.406100 | 88 | 0.593900 | 9.986347 | 5 | 40 | |
| 40 | 0 | 9.392530 | 87 | 9.406188 | 89 | 0.593812 | 9.986342 | 5 | 20 | |
| 50 | 0 | 9.392613 | 88 | 9.406276 | 88 | 0.593724 | 9.986336 | 5 | 10 | |
| 18 | 0 | 9.392695 | 89 | 9.406364 | 88 | 0.593636 | 9.986331 | 5 | 0 | 42 |
| 10 | 10 | 9.392778 | 84 | 9.406452 | 88 | 0.593548 | 9.986325 | 5 | 50 | |
| 20 | 0 | 9.392860 | 85 | 9.406540 | 89 | 0.593460 | 9.986320 | 5 | 60 | |
| 30 | 0 | 9.392943 | 86 | 9.406628 | 88 | 0.593372 | 9.986315 | 5 | 40 | |
| 40 | 0 | 9.393025 | 87 | 9.406716 | 89 | 0.593284 | 9.986309 | 5 | 20 | |
| 50 | 0 | 9.393108 | 88 | 9.406804 | 88 | 0.593196 | 9.986304 | 5 | 10 | |
| 19 | 0 | 9.393191 | 89 | 9.406892 | 88 | 0.593108 | 9.986299 | 5 | 0 | 41 |
| 10 | 10 | 9.393273 | 84 | 9.406980 | 88 | 0.593020 | 9.986293 | 5 | 50 | |
| 20 | 0 | 9.393356 | 85 | 9.407068 | 89 | 0.592932 | 9.986288 | 5 | 60 | |
| 30 | 0 | 9.393438 | 86 | 9.407155 | 88 | 0.592845 | 9.986282 | 5 | 40 | |
| 40 | 0 | 9.393520 | 87 | 9.407243 | 89 | 0.592757 | 9.986277 | 5 | 20 | |
| 50 | 0 | 9.393603 | 88 | 9.407331 | 88 | 0.592669 | 9.986272 | 5 | 10 | |
| 20 | 0 | 9.393685 | 89 | 9.407419 | 88 | 0.592581 | 9.986266 | 5 | 0 | 40 |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|---|----|
| 20 | 0 | 9.393685 | 83 | 9.407419 | 88 | 0.592581 | 9.986266 | 5 | 0 | 40 |
| | 10 | 9.393768 | 82 | 9.407507 | 87 | 0.592493 | 9.986261 | 5 | 0 | 50 |
| | 20 | 9.393850 | 82 | 9.407594 | 88 | 0.592406 | 9.986256 | 5 | 0 | 40 |
| | 30 | 9.393932 | 83 | 9.407682 | 88 | 0.592318 | 9.986250 | 5 | 0 | 30 |
| | 40 | 9.394015 | 82 | 9.407770 | 88 | 0.592230 | 9.986245 | 5 | 0 | 20 |
| | 50 | 9.394097 | 82 | 9.407858 | 88 | 0.592142 | 9.986239 | 5 | 0 | 10 |
| 21 | 0 | 9.394179 | 83 | 9.407945 | 88 | 0.592055 | 9.986234 | 5 | 0 | 39 |
| | 10 | 9.394262 | 82 | 9.408033 | 88 | 0.591967 | 9.986229 | 5 | 0 | 50 |
| | 20 | 9.394344 | 82 | 9.408121 | 87 | 0.591879 | 9.986223 | 5 | 0 | 40 |
| | 30 | 9.394426 | 82 | 9.408208 | 88 | 0.591792 | 9.986218 | 5 | 0 | 30 |
| | 40 | 9.394508 | 82 | 9.408296 | 88 | 0.591704 | 9.986212 | 5 | 0 | 20 |
| | 50 | 9.394591 | 83 | 9.408384 | 88 | 0.591616 | 9.986207 | 5 | 0 | 10 |
| 22 | 0 | 9.394673 | 82 | 9.408471 | 88 | 0.591529 | 9.986202 | 5 | 0 | 38 |
| | 10 | 9.394755 | 82 | 9.408559 | 87 | 0.591441 | 9.986196 | 5 | 0 | 50 |
| | 20 | 9.394837 | 82 | 9.408646 | 88 | 0.591354 | 9.986191 | 5 | 0 | 40 |
| | 30 | 9.394919 | 83 | 9.408734 | 87 | 0.591266 | 9.986186 | 5 | 0 | 30 |
| | 40 | 9.395002 | 82 | 9.408821 | 88 | 0.591179 | 9.986180 | 5 | 0 | 20 |
| | 50 | 9.395084 | 82 | 9.408909 | 88 | 0.591091 | 9.986175 | 5 | 0 | 10 |
| 23 | 0 | 9.395166 | 82 | 9.408996 | 88 | 0.591004 | 9.986169 | 5 | 0 | 37 |
| | 10 | 9.395248 | 82 | 9.409084 | 87 | 0.590916 | 9.986164 | 5 | 0 | 50 |
| | 20 | 9.395330 | 82 | 9.409171 | 88 | 0.590829 | 9.986159 | 5 | 0 | 40 |
| | 30 | 9.395412 | 82 | 9.409259 | 87 | 0.590741 | 9.986153 | 5 | 0 | 30 |
| | 40 | 9.395494 | 82 | 9.409346 | 88 | 0.590654 | 9.986148 | 5 | 0 | 20 |
| | 50 | 9.395576 | 82 | 9.409434 | 88 | 0.590566 | 9.986142 | 5 | 0 | 10 |
| 24 | 0 | 9.395658 | 82 | 9.409521 | 88 | 0.590479 | 9.986137 | 5 | 0 | 36 |
| | 10 | 9.395740 | 82 | 9.409609 | 87 | 0.590391 | 9.986132 | 5 | 0 | 50 |
| | 20 | 9.395822 | 82 | 9.409696 | 87 | 0.590304 | 9.986126 | 5 | 0 | 40 |
| | 30 | 9.395904 | 82 | 9.409783 | 88 | 0.590217 | 9.986121 | 5 | 0 | 30 |
| | 40 | 9.395986 | 82 | 9.409871 | 88 | 0.590129 | 9.986115 | 5 | 0 | 20 |
| | 50 | 9.396068 | 82 | 9.409958 | 87 | 0.590042 | 9.986110 | 5 | 0 | 10 |
| 25 | 0 | 9.396150 | 82 | 9.410045 | 88 | 0.589955 | 9.986104 | 5 | 0 | 35 |
| | 10 | 9.396232 | 82 | 9.410133 | 87 | 0.589867 | 9.986099 | 5 | 0 | 50 |
| | 20 | 9.396314 | 81 | 9.410220 | 87 | 0.589780 | 9.986094 | 5 | 0 | 40 |
| | 30 | 9.396395 | 82 | 9.410307 | 88 | 0.589693 | 9.986088 | 5 | 0 | 30 |
| | 40 | 9.396477 | 82 | 9.410395 | 87 | 0.589605 | 9.986083 | 5 | 0 | 20 |
| | 50 | 9.396559 | 82 | 9.410482 | 87 | 0.589518 | 9.986077 | 5 | 0 | 10 |
| 26 | 0 | 9.396641 | 82 | 9.410569 | 87 | 0.589431 | 9.986072 | 5 | 0 | 34 |
| | 10 | 9.396723 | 82 | 9.410656 | 87 | 0.589344 | 9.986067 | 5 | 0 | 50 |
| | 20 | 9.396805 | 81 | 9.410743 | 88 | 0.589257 | 9.986061 | 5 | 0 | 40 |
| | 30 | 9.396886 | 82 | 9.410831 | 87 | 0.589169 | 9.986056 | 5 | 0 | 30 |
| | 40 | 9.396968 | 82 | 9.410918 | 87 | 0.589082 | 9.986050 | 5 | 0 | 20 |
| | 50 | 9.397050 | 82 | 9.411005 | 87 | 0.588995 | 9.986045 | 5 | 0 | 10 |
| 27 | 0 | 9.397132 | 81 | 9.411092 | 87 | 0.588908 | 9.986039 | 5 | 0 | 33 |
| | 10 | 9.397213 | 82 | 9.411179 | 87 | 0.588821 | 9.986034 | 5 | 0 | 50 |
| | 20 | 9.397295 | 82 | 9.411266 | 87 | 0.588734 | 9.986029 | 5 | 0 | 40 |
| | 30 | 9.397377 | 82 | 9.411353 | 88 | 0.588647 | 9.986023 | 5 | 0 | 30 |
| | 40 | 9.397458 | 81 | 9.411441 | 87 | 0.588559 | 9.986018 | 5 | 0 | 20 |
| | 50 | 9.397540 | 82 | 9.411528 | 87 | 0.588472 | 9.986012 | 5 | 0 | 10 |
| 28 | 0 | 9.397621 | 81 | 9.411615 | 87 | 0.588385 | 9.986007 | 5 | 0 | 32 |
| | 10 | 9.397703 | 82 | 9.411702 | 87 | 0.588298 | 9.986001 | 5 | 0 | 50 |
| | 20 | 9.397785 | 82 | 9.411789 | 87 | 0.588211 | 9.985996 | 5 | 0 | 40 |
| | 30 | 9.397866 | 81 | 9.411876 | 87 | 0.588124 | 9.985991 | 5 | 0 | 30 |
| | 40 | 9.397948 | 82 | 9.411963 | 87 | 0.588037 | 9.985985 | 5 | 0 | 20 |
| | 50 | 9.398029 | 81 | 9.412050 | 87 | 0.587950 | 9.985980 | 5 | 0 | 10 |
| 29 | 0 | 9.398111 | 81 | 9.412137 | 87 | 0.587863 | 9.985974 | 5 | 0 | 31 |
| | 10 | 9.398192 | 82 | 9.412224 | 86 | 0.587776 | 9.985969 | 5 | 0 | 50 |
| | 20 | 9.398274 | 82 | 9.412310 | 87 | 0.587690 | 9.985963 | 5 | 0 | 40 |
| | 30 | 9.398355 | 81 | 9.412397 | 87 | 0.587603 | 9.985958 | 5 | 0 | 30 |
| | 40 | 9.398437 | 82 | 9.412484 | 87 | 0.587516 | 9.985952 | 5 | 0 | 20 |
| | 50 | 9.398518 | 81 | 9.412571 | 87 | 0.587429 | 9.985947 | 5 | 0 | 10 |
| 30 | 0 | 9.398600 | 82 | 9.412658 | 87 | 0.587342 | 9.985942 | 5 | 0 | 30 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.398600 | 81 | 9.412658 | 87 | 0.587342 | 9.985942 | 6 | 0 | 30 |
| | 10 | 9.398681 | 81 | 9.412745 | 87 | 0.587255 | 9.985936 | 5 | 50 | |
| | 20 | 9.398762 | 82 | 9.412832 | 87 | 0.587168 | 9.985931 | 5 | 40 | |
| | 30 | 9.398844 | 81 | 9.412919 | 86 | 0.587081 | 9.985925 | 5 | 30 | |
| | 40 | 9.398925 | 82 | 9.413005 | 87 | 0.586995 | 9.985920 | 5 | 20 | |
| | 50 | 9.399007 | 81 | 9.413092 | 87 | 0.586908 | 9.985914 | 5 | 10 | |
| 31 | 0 | 9.399088 | 81 | 9.413179 | 87 | 0.586821 | 9.985909 | 5 | 0 | 29 |
| | 10 | 9.399169 | 81 | 9.413266 | 86 | 0.586734 | 9.985903 | 5 | 50 | |
| | 20 | 9.399250 | 82 | 9.413352 | 87 | 0.586648 | 9.985898 | 5 | 40 | |
| | 30 | 9.399332 | 81 | 9.413439 | 87 | 0.586561 | 9.985893 | 5 | 30 | |
| | 40 | 9.399413 | 81 | 9.413526 | 87 | 0.586475 | 9.985887 | 5 | 20 | |
| | 50 | 9.399494 | 82 | 9.413613 | 86 | 0.586388 | 9.985882 | 5 | 10 | |
| 32 | 0 | 9.399575 | 81 | 9.413699 | 87 | 0.586302 | 9.985877 | 5 | 0 | 28 |
| | 10 | 9.399657 | 81 | 9.413786 | 87 | 0.586215 | 9.985871 | 5 | 50 | |
| | 20 | 9.399738 | 81 | 9.413873 | 86 | 0.586127 | 9.985865 | 5 | 40 | |
| | 30 | 9.399819 | 81 | 9.413959 | 87 | 0.586041 | 9.985860 | 5 | 30 | |
| | 40 | 9.399900 | 81 | 9.414046 | 86 | 0.585954 | 9.985854 | 5 | 20 | |
| | 50 | 9.399981 | 82 | 9.414132 | 87 | 0.585868 | 9.985849 | 5 | 10 | |
| 33 | 0 | 9.400062 | 81 | 9.414219 | 87 | 0.585781 | 9.985843 | 5 | 0 | 27 |
| | 10 | 9.400144 | 81 | 9.414306 | 86 | 0.585694 | 9.985838 | 5 | 50 | |
| | 20 | 9.400225 | 81 | 9.414392 | 87 | 0.585608 | 9.985832 | 5 | 40 | |
| | 30 | 9.400306 | 81 | 9.414479 | 86 | 0.585521 | 9.985827 | 5 | 30 | |
| | 40 | 9.400387 | 81 | 9.414565 | 87 | 0.585435 | 9.985822 | 5 | 20 | |
| | 50 | 9.400468 | 82 | 9.414652 | 86 | 0.585348 | 9.985816 | 5 | 10 | |
| 34 | 0 | 9.400549 | 81 | 9.414738 | 87 | 0.585262 | 9.985811 | 5 | 0 | 26 |
| | 10 | 9.400630 | 81 | 9.414825 | 86 | 0.585175 | 9.985805 | 5 | 50 | |
| | 20 | 9.400711 | 81 | 9.414911 | 87 | 0.585089 | 9.985800 | 5 | 40 | |
| | 30 | 9.400792 | 81 | 9.414998 | 86 | 0.585002 | 9.985794 | 5 | 30 | |
| | 40 | 9.400873 | 81 | 9.415084 | 87 | 0.584916 | 9.985789 | 5 | 20 | |
| | 50 | 9.400954 | 81 | 9.415171 | 86 | 0.584829 | 9.985783 | 5 | 10 | |
| 35 | 0 | 9.401035 | 81 | 9.415257 | 86 | 0.584743 | 9.985778 | 5 | 0 | 25 |
| | 10 | 9.401116 | 81 | 9.415343 | 87 | 0.584657 | 9.985772 | 5 | 50 | |
| | 20 | 9.401197 | 80 | 9.415430 | 86 | 0.584570 | 9.985767 | 5 | 40 | |
| | 30 | 9.401277 | 81 | 9.415516 | 87 | 0.584484 | 9.985761 | 5 | 30 | |
| | 40 | 9.401358 | 81 | 9.415603 | 86 | 0.584397 | 9.985756 | 5 | 20 | |
| | 50 | 9.401439 | 81 | 9.415689 | 86 | 0.584311 | 9.985750 | 5 | 10 | |
| 36 | 0 | 9.401520 | 81 | 9.415775 | 87 | 0.584225 | 9.985745 | 5 | 0 | 24 |
| | 10 | 9.401601 | 81 | 9.415862 | 86 | 0.584138 | 9.985739 | 5 | 50 | |
| | 20 | 9.401682 | 80 | 9.415948 | 86 | 0.584052 | 9.985734 | 5 | 40 | |
| | 30 | 9.401762 | 81 | 9.416034 | 86 | 0.583966 | 9.985728 | 5 | 30 | |
| | 40 | 9.401843 | 81 | 9.416120 | 87 | 0.583880 | 9.985723 | 5 | 20 | |
| | 50 | 9.401924 | 81 | 9.416207 | 86 | 0.583793 | 9.985717 | 5 | 10 | |
| 37 | 0 | 9.402005 | 80 | 9.416293 | 86 | 0.583707 | 9.985712 | 5 | 0 | 23 |
| | 10 | 9.402085 | 81 | 9.416379 | 86 | 0.583621 | 9.985706 | 5 | 50 | |
| | 20 | 9.402166 | 81 | 9.416465 | 86 | 0.583535 | 9.985701 | 5 | 40 | |
| | 30 | 9.402247 | 81 | 9.416551 | 86 | 0.583449 | 9.985695 | 5 | 30 | |
| | 40 | 9.402328 | 80 | 9.416638 | 87 | 0.583362 | 9.985690 | 5 | 20 | |
| | 50 | 9.402408 | 81 | 9.416724 | 86 | 0.583276 | 9.985684 | 5 | 10 | |
| 38 | 0 | 9.402489 | 81 | 9.416810 | 86 | 0.583190 | 9.985679 | 5 | 0 | 22 |
| | 10 | 9.402570 | 81 | 9.416896 | 86 | 0.583104 | 9.985673 | 5 | 50 | |
| | 20 | 9.402650 | 80 | 9.416982 | 86 | 0.583018 | 9.985668 | 5 | 40 | |
| | 30 | 9.402731 | 81 | 9.417068 | 86 | 0.582932 | 9.985662 | 5 | 30 | |
| | 40 | 9.402811 | 80 | 9.417154 | 86 | 0.582846 | 9.985657 | 5 | 20 | |
| | 50 | 9.402892 | 81 | 9.417240 | 86 | 0.582760 | 9.985651 | 5 | 10 | |
| 39 | 0 | 9.402972 | 81 | 9.417326 | 87 | 0.582674 | 9.985646 | 5 | 0 | 21 |
| | 10 | 9.403053 | 80 | 9.417413 | 86 | 0.582587 | 9.985640 | 5 | 50 | |
| | 20 | 9.403133 | 81 | 9.417499 | 86 | 0.582501 | 9.985635 | 5 | 40 | |
| | 30 | 9.403214 | 81 | 9.417585 | 86 | 0.582415 | 9.985629 | 5 | 30 | |
| | 40 | 9.403294 | 80 | 9.417671 | 86 | 0.582329 | 9.985624 | 5 | 20 | |
| | 50 | 9.403375 | 81 | 9.417757 | 86 | 0.582243 | 9.985618 | 5 | 10 | |
| 40 | 0 | 9.403455 | 80 | 9.417842 | 85 | 0.582158 | 9.985613 | 5 | 0 | 20 |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9.403455 | 81 | 9.417842 | 86 | 0.582158 | 9.985613 | 6 | 0 | 20 |
| | 10 | 9.403536 | 80 | 9.417928 | 86 | 0.582072 | 9.985607 | 5 | 50 | |
| | 20 | 9.403616 | 81 | 9.418014 | 86 | 0.581986 | 9.985602 | 5 | 40 | |
| | 30 | 9.403697 | 80 | 9.418100 | 86 | 0.581900 | 9.985596 | 5 | 30 | |
| | 40 | 9.403777 | 80 | 9.418186 | 86 | 0.581814 | 9.985591 | 5 | 20 | |
| | 50 | 9.403857 | 81 | 9.418272 | 86 | 0.581728 | 9.985585 | 5 | 10 | |
| 41 | 0 | 9.403938 | 80 | 9.418358 | 86 | 0.581642 | 9.985580 | 6 | 0 | 19 |
| | 10 | 9.404018 | 80 | 9.418444 | 86 | 0.581556 | 9.985574 | 5 | 50 | |
| | 20 | 9.404098 | 81 | 9.418530 | 86 | 0.581470 | 9.985569 | 5 | 40 | |
| | 30 | 9.404179 | 80 | 9.418616 | 85 | 0.581384 | 9.985563 | 5 | 30 | |
| | 40 | 9.404259 | 80 | 9.418701 | 86 | 0.581299 | 9.985558 | 5 | 20 | |
| | 50 | 9.404339 | 81 | 9.418787 | 86 | 0.581213 | 9.985552 | 5 | 10 | |
| 42 | 0 | 9.404420 | 80 | 9.418873 | 86 | 0.581127 | 9.985547 | 6 | 0 | 18 |
| | 10 | 9.404500 | 80 | 9.418959 | 85 | 0.581041 | 9.985541 | 5 | 50 | |
| | 20 | 9.404580 | 80 | 9.419044 | 86 | 0.580956 | 9.985536 | 5 | 40 | |
| | 30 | 9.404660 | 81 | 9.419130 | 86 | 0.580870 | 9.985530 | 5 | 30 | |
| | 40 | 9.404741 | 80 | 9.419216 | 86 | 0.580784 | 9.985525 | 5 | 20 | |
| | 50 | 9.404821 | 80 | 9.419302 | 85 | 0.580698 | 9.985519 | 5 | 10 | |
| 43 | 0 | 9.404901 | 80 | 9.419387 | 86 | 0.580613 | 9.985514 | 6 | 0 | 17 |
| | 10 | 9.404981 | 80 | 9.419473 | 86 | 0.580527 | 9.985508 | 5 | 50 | |
| | 20 | 9.405061 | 80 | 9.419559 | 85 | 0.580441 | 9.985502 | 6 | 40 | |
| | 30 | 9.405141 | 80 | 9.419644 | 86 | 0.580356 | 9.985497 | 5 | 30 | |
| | 40 | 9.405221 | 81 | 9.419730 | 86 | 0.580270 | 9.985491 | 5 | 20 | |
| | 50 | 9.405302 | 80 | 9.419816 | 85 | 0.580184 | 9.985486 | 5 | 10 | |
| 44 | 0 | 9.405382 | 80 | 9.419901 | 86 | 0.580099 | 9.985480 | 5 | 0 | 16 |
| | 10 | 9.405462 | 80 | 9.419987 | 85 | 0.580013 | 9.985475 | 5 | 50 | |
| | 20 | 9.405542 | 80 | 9.420072 | 85 | 0.579928 | 9.985469 | 5 | 40 | |
| | 30 | 9.405622 | 80 | 9.420158 | 86 | 0.579842 | 9.985464 | 5 | 30 | |
| | 40 | 9.405702 | 80 | 9.420244 | 86 | 0.579756 | 9.985458 | 5 | 20 | |
| | 50 | 9.405782 | 80 | 9.420329 | 86 | 0.579671 | 9.985453 | 5 | 10 | |
| 45 | 0 | 9.405862 | 80 | 9.420415 | 85 | 0.579585 | 9.985447 | 5 | 0 | 15 |
| | 10 | 9.405942 | 80 | 9.420500 | 86 | 0.579500 | 9.985442 | 5 | 50 | |
| | 20 | 9.406022 | 80 | 9.420586 | 86 | 0.579414 | 9.985436 | 6 | 40 | |
| | 30 | 9.406102 | 80 | 9.420671 | 85 | 0.579329 | 9.985430 | 6 | 30 | |
| | 40 | 9.406181 | 79 | 9.420757 | 86 | 0.579243 | 9.985425 | 5 | 20 | |
| | 50 | 9.406261 | 80 | 9.420842 | 85 | 0.579158 | 9.985419 | 5 | 10 | |
| 46 | 0 | 9.406341 | 80 | 9.420927 | 86 | 0.579073 | 9.985414 | 5 | 0 | 14 |
| | 10 | 9.406421 | 80 | 9.421013 | 85 | 0.578987 | 9.985408 | 5 | 50 | |
| | 20 | 9.406501 | 80 | 9.421098 | 86 | 0.578902 | 9.985403 | 5 | 40 | |
| | 30 | 9.406581 | 80 | 9.421184 | 85 | 0.578816 | 9.985397 | 6 | 30 | |
| | 40 | 9.406661 | 80 | 9.421269 | 85 | 0.578731 | 9.985392 | 5 | 20 | |
| | 50 | 9.406740 | 79 | 9.421354 | 85 | 0.578646 | 9.985386 | 6 | 10 | |
| 47 | 0 | 9.406820 | 80 | 9.421440 | 86 | 0.578560 | 9.985381 | 5 | 0 | 13 |
| | 10 | 9.406900 | 80 | 9.421525 | 85 | 0.578475 | 9.985375 | 6 | 50 | |
| | 20 | 9.406980 | 80 | 9.421610 | 86 | 0.578390 | 9.985369 | 5 | 40 | |
| | 30 | 9.407060 | 80 | 9.421696 | 86 | 0.578304 | 9.985364 | 5 | 30 | |
| | 40 | 9.407139 | 79 | 9.421781 | 85 | 0.578219 | 9.985358 | 5 | 20 | |
| | 50 | 9.407219 | 80 | 9.421866 | 85 | 0.578134 | 9.985353 | 5 | 10 | |
| 48 | 0 | 9.407299 | 80 | 9.421952 | 86 | 0.578048 | 9.985347 | 5 | 0 | 12 |
| | 10 | 9.407378 | 79 | 9.422037 | 85 | 0.577963 | 9.985342 | 6 | 50 | |
| | 20 | 9.407458 | 80 | 9.422122 | 85 | 0.577878 | 9.985336 | 6 | 40 | |
| | 30 | 9.407538 | 80 | 9.422207 | 85 | 0.577793 | 9.985330 | 6 | 30 | |
| | 40 | 9.407617 | 79 | 9.422292 | 85 | 0.577708 | 9.985325 | 5 | 20 | |
| | 50 | 9.407697 | 80 | 9.422378 | 86 | 0.577622 | 9.985319 | 5 | 10 | |
| 49 | 0 | 9.407777 | 80 | 9.422463 | 85 | 0.577537 | 9.985314 | 5 | 0 | 11 |
| | 10 | 9.407856 | 79 | 9.422548 | 85 | 0.577452 | 9.985308 | 6 | 50 | |
| | 20 | 9.407936 | 80 | 9.422633 | 85 | 0.577367 | 9.985303 | 5 | 40 | |
| | 30 | 9.408015 | 79 | 9.422718 | 85 | 0.577282 | 9.985297 | 6 | 30 | |
| | 40 | 9.408095 | 80 | 9.422803 | 85 | 0.577197 | 9.985291 | 6 | 20 | |
| | 50 | 9.408174 | 79 | 9.422888 | 85 | 0.577112 | 9.985286 | 5 | 10 | |
| 50 | 0 | 9.408254 | 80 | 9.422974 | 86 | 0.577026 | 9.985280 | 5 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|---|----|
| 50 | 0 | 9.408254 | 79 | 9.422974 | 85 | 0.577026 | 9.985280 | 5 | 0 | 10 |
| | 10 | 9.408333 | 80 | 9.423059 | 85 | 0.576941 | 9.985275 | 5 | 0 | |
| | 20 | 9.408413 | 79 | 9.423144 | 85 | 0.576856 | 9.985269 | 5 | 0 | |
| | 30 | 9.408492 | 80 | 9.423229 | 85 | 0.576771 | 9.985264 | 5 | 0 | |
| | 40 | 9.408572 | 79 | 9.423314 | 85 | 0.576686 | 9.985258 | 5 | 0 | |
| | 50 | 9.408651 | 80 | 9.423399 | 85 | 0.576601 | 9.985252 | 5 | 0 | |
| 51 | 0 | 9.408731 | 79 | 9.423484 | 85 | 0.576516 | 9.985247 | 5 | 0 | |
| | 10 | 9.408810 | 80 | 9.423569 | 85 | 0.576431 | 9.985241 | 5 | 0 | |
| | 20 | 9.408889 | 79 | 9.423654 | 85 | 0.576346 | 9.985236 | 5 | 0 | |
| | 30 | 9.408969 | 80 | 9.423739 | 85 | 0.576261 | 9.985230 | 5 | 0 | |
| | 40 | 9.409048 | 79 | 9.423824 | 85 | 0.576176 | 9.985224 | 5 | 0 | |
| | 50 | 9.409127 | 80 | 9.423909 | 84 | 0.576091 | 9.985219 | 5 | 0 | |
| 52 | 0 | 9.409207 | 79 | 9.423993 | 85 | 0.576007 | 9.985213 | 5 | 0 | |
| | 10 | 9.409286 | 80 | 9.424078 | 85 | 0.575922 | 9.985208 | 5 | 0 | |
| | 20 | 9.409365 | 79 | 9.424163 | 85 | 0.575837 | 9.985202 | 5 | 0 | |
| | 30 | 9.409445 | 80 | 9.424248 | 85 | 0.575752 | 9.985197 | 5 | 0 | |
| | 40 | 9.409524 | 79 | 9.424333 | 85 | 0.575667 | 9.985191 | 5 | 0 | |
| | 50 | 9.409603 | 80 | 9.424418 | 85 | 0.575582 | 9.985185 | 5 | 0 | |
| 53 | 0 | 9.409682 | 79 | 9.424503 | 84 | 0.575497 | 9.985180 | 5 | 0 | |
| | 10 | 9.409762 | 80 | 9.424587 | 85 | 0.575413 | 9.985174 | 5 | 0 | |
| | 20 | 9.409841 | 79 | 9.424672 | 85 | 0.575328 | 9.985169 | 5 | 0 | |
| | 30 | 9.409920 | 80 | 9.424757 | 85 | 0.575243 | 9.985163 | 5 | 0 | |
| | 40 | 9.409999 | 79 | 9.424842 | 85 | 0.575158 | 9.985157 | 5 | 0 | |
| | 50 | 9.410078 | 80 | 9.424927 | 84 | 0.575073 | 9.985152 | 5 | 0 | |
| 54 | 0 | 9.410157 | 79 | 9.425011 | 85 | 0.574989 | 9.985146 | 5 | 0 | |
| | 10 | 9.410237 | 80 | 9.425096 | 85 | 0.574904 | 9.985141 | 5 | 0 | |
| | 20 | 9.410316 | 79 | 9.425181 | 85 | 0.574819 | 9.985135 | 5 | 0 | |
| | 30 | 9.410395 | 80 | 9.425265 | 85 | 0.574735 | 9.985129 | 5 | 0 | |
| | 40 | 9.410474 | 79 | 9.425350 | 85 | 0.574650 | 9.985124 | 5 | 0 | |
| | 50 | 9.410553 | 80 | 9.425435 | 84 | 0.574565 | 9.985118 | 5 | 0 | |
| 55 | 0 | 9.410632 | 79 | 9.425519 | 85 | 0.574481 | 9.985113 | 5 | 0 | |
| | 10 | 9.410711 | 80 | 9.425604 | 85 | 0.574396 | 9.985107 | 5 | 0 | |
| | 20 | 9.410790 | 79 | 9.425689 | 85 | 0.574311 | 9.985101 | 5 | 0 | |
| | 30 | 9.410869 | 80 | 9.425773 | 84 | 0.574227 | 9.985096 | 5 | 0 | |
| | 40 | 9.410948 | 79 | 9.425858 | 85 | 0.574142 | 9.985090 | 5 | 0 | |
| | 50 | 9.411027 | 80 | 9.425942 | 85 | 0.574058 | 9.985085 | 5 | 0 | |
| 56 | 0 | 9.411106 | 79 | 9.426027 | 85 | 0.573973 | 9.985079 | 5 | 0 | |
| | 10 | 9.411185 | 80 | 9.426112 | 85 | 0.573888 | 9.985073 | 5 | 0 | |
| | 20 | 9.411264 | 79 | 9.426196 | 84 | 0.573804 | 9.985068 | 5 | 0 | |
| | 30 | 9.411343 | 80 | 9.426281 | 85 | 0.573719 | 9.985062 | 5 | 0 | |
| | 40 | 9.411422 | 79 | 9.426365 | 84 | 0.573635 | 9.985056 | 5 | 0 | |
| | 50 | 9.411500 | 80 | 9.426450 | 85 | 0.573550 | 9.985051 | 5 | 0 | |
| 57 | 0 | 9.411579 | 79 | 9.426534 | 84 | 0.573466 | 9.985045 | 5 | 0 | |
| | 10 | 9.411658 | 80 | 9.426619 | 85 | 0.573381 | 9.985040 | 5 | 0 | |
| | 20 | 9.411737 | 79 | 9.426703 | 84 | 0.573297 | 9.985034 | 5 | 0 | |
| | 30 | 9.411816 | 80 | 9.426788 | 85 | 0.573212 | 9.985028 | 5 | 0 | |
| | 40 | 9.411895 | 79 | 9.426872 | 84 | 0.573128 | 9.985023 | 5 | 0 | |
| | 50 | 9.411973 | 80 | 9.426956 | 84 | 0.573044 | 9.985017 | 5 | 0 | |
| 58 | 0 | 9.412052 | 79 | 9.427041 | 85 | 0.572959 | 9.985011 | 5 | 0 | |
| | 10 | 9.412131 | 80 | 9.427125 | 84 | 0.572875 | 9.985006 | 5 | 0 | |
| | 20 | 9.412210 | 79 | 9.427210 | 85 | 0.572790 | 9.985000 | 5 | 0 | |
| | 30 | 9.412288 | 80 | 9.427294 | 84 | 0.572706 | 9.984995 | 5 | 0 | |
| | 40 | 9.412367 | 79 | 9.427378 | 84 | 0.572622 | 9.984989 | 5 | 0 | |
| | 50 | 9.412446 | 80 | 9.427463 | 85 | 0.572537 | 9.984983 | 5 | 0 | |
| 59 | 0 | 9.412524 | 79 | 9.427547 | 84 | 0.572453 | 9.984978 | 5 | 0 | |
| | 10 | 9.412603 | 80 | 9.427631 | 84 | 0.572369 | 9.984972 | 5 | 0 | |
| | 20 | 9.412682 | 79 | 9.427715 | 84 | 0.572285 | 9.984966 | 5 | 0 | |
| | 30 | 9.412760 | 80 | 9.427800 | 85 | 0.572200 | 9.984961 | 5 | 0 | |
| | 40 | 9.412839 | 79 | 9.427884 | 84 | 0.572116 | 9.984955 | 5 | 0 | |
| | 50 | 9.412918 | 80 | 9.427968 | 84 | 0.572032 | 9.984949 | 5 | 0 | |
| 60 | 0 | 9.412996 | 79 | 9.428052 | 84 | 0.571948 | 9.984944 | 5 | 0 | |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

85
1 8.5
2 17.0
3 25.5
4 34.0
5 42.5
6 51.0
7 59.5
8 68.0
9 76.5

84
1 8.4
2 16.8
3 25.2
4 33.6
5 42.0
6 50.4
7 58.8
8 67.2
9 75.6

79
1 7.9
2 15.8
3 23.7
4 31.6
5 39.5
6 47.4
7 55.3
8 63.2
9 71.1

78
1 7.8
2 15.6
3 23.4
4 31.2
5 39.0
6 46.8
7 54.6
8 62.4
9 70.2

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.412996 | 79 | 9.428052 | 85 | 0.571948 | 9.984944 | 6 | 0 | 60 |
| | 10 | 9.413075 | 78 | 9.428137 | 84 | 0.571863 | 9.984938 | 6 | 50 | |
| | 20 | 9.413153 | 78 | 9.428221 | 84 | 0.571779 | 9.984932 | 6 | 40 | |
| | 30 | 9.413232 | 78 | 9.428305 | 84 | 0.571695 | 9.984927 | 6 | 30 | |
| | 40 | 9.413310 | 78 | 9.428389 | 84 | 0.571611 | 9.984921 | 6 | 20 | |
| 85 | 50 | 9.413389 | 79 | 9.428473 | 85 | 0.571527 | 9.984916 | 6 | 10 | |
| 1 | 0 | 9.413467 | 78 | 9.428558 | 84 | 0.571442 | 9.984910 | 6 | 0 | 59 |
| 17.0 | 10 | 9.413546 | 78 | 9.428642 | 84 | 0.571358 | 9.984904 | 6 | 50 | |
| 32.5 | 20 | 9.413624 | 78 | 9.428726 | 84 | 0.571274 | 9.984899 | 6 | 40 | |
| 43.0 | 30 | 9.413703 | 78 | 9.428810 | 84 | 0.571190 | 9.984893 | 6 | 30 | |
| 54.5 | 40 | 9.413781 | 79 | 9.428894 | 84 | 0.571106 | 9.984887 | 6 | 20 | |
| 65.0 | 50 | 9.413860 | 78 | 9.428978 | 84 | 0.571022 | 9.984882 | 6 | 10 | |
| 75.9 | 0 | 9.413938 | 78 | 9.429062 | 84 | 0.570938 | 9.984876 | 6 | 0 | 58 |
| 86.0 | 10 | 9.414016 | 79 | 9.429146 | 84 | 0.570854 | 9.984870 | 6 | 50 | |
| 97.6 | 20 | 9.414095 | 78 | 9.429230 | 84 | 0.570770 | 9.984865 | 6 | 40 | |
| | 30 | 9.414173 | 78 | 9.429314 | 84 | 0.570686 | 9.984859 | 6 | 30 | |
| | 40 | 9.414252 | 78 | 9.429398 | 84 | 0.570602 | 9.984853 | 6 | 20 | |
| | 50 | 9.414330 | 78 | 9.429482 | 84 | 0.570518 | 9.984848 | 6 | 10 | |
| 84 | 0 | 9.414408 | 78 | 9.429566 | 84 | 0.570434 | 9.984842 | 6 | 0 | 57 |
| 8.4 | 10 | 9.414486 | 79 | 9.429650 | 84 | 0.570350 | 9.984836 | 6 | 50 | |
| 16.8 | 20 | 9.414565 | 78 | 9.429734 | 84 | 0.570266 | 9.984831 | 6 | 40 | |
| 32.5 | 30 | 9.414643 | 78 | 9.429818 | 84 | 0.570182 | 9.984825 | 6 | 30 | |
| 43.6 | 40 | 9.414721 | 79 | 9.429902 | 84 | 0.570098 | 9.984819 | 6 | 20 | |
| 54.0 | 50 | 9.414800 | 78 | 9.429986 | 84 | 0.570014 | 9.984814 | 6 | 10 | |
| 65.8 | 0 | 9.414878 | 78 | 9.430070 | 84 | 0.569930 | 9.984808 | 6 | 0 | 56 |
| 77.2 | 10 | 9.414956 | 78 | 9.430154 | 84 | 0.569846 | 9.984802 | 6 | 50 | |
| 97.6 | 20 | 9.415034 | 78 | 9.430237 | 83 | 0.569763 | 9.984797 | 6 | 40 | |
| | 30 | 9.415112 | 78 | 9.430321 | 84 | 0.569679 | 9.984791 | 6 | 30 | |
| | 40 | 9.415190 | 78 | 9.430405 | 84 | 0.569595 | 9.984785 | 6 | 20 | |
| | 50 | 9.415269 | 79 | 9.430489 | 84 | 0.569511 | 9.984780 | 6 | 10 | |
| * | 0 | 9.415347 | 78 | 9.430573 | 84 | 0.569427 | 9.984774 | 6 | 0 | 55 |
| | 10 | 9.415425 | 78 | 9.430657 | 83 | 0.569343 | 9.984768 | 6 | 50 | |
| | 20 | 9.415503 | 78 | 9.430740 | 84 | 0.569260 | 9.984763 | 6 | 40 | |
| | 30 | 9.415581 | 78 | 9.430824 | 84 | 0.569176 | 9.984757 | 6 | 30 | |
| | 40 | 9.415659 | 78 | 9.430908 | 84 | 0.569092 | 9.984751 | 6 | 20 | |
| | 50 | 9.415737 | 78 | 9.430992 | 84 | 0.569008 | 9.984746 | 6 | 10 | |
| 79 | 0 | 9.415815 | 78 | 9.431075 | 83 | 0.568925 | 9.984740 | 6 | 0 | 54 |
| 7.9 | 10 | 9.415893 | 78 | 9.431159 | 84 | 0.568841 | 9.984734 | 6 | 50 | |
| 15.8 | 20 | 9.415971 | 78 | 9.431243 | 84 | 0.568757 | 9.984729 | 6 | 40 | |
| 23.7 | 30 | 9.416049 | 78 | 9.431326 | 83 | 0.568674 | 9.984723 | 6 | 30 | |
| 31.6 | 40 | 9.416127 | 78 | 9.431410 | 84 | 0.568590 | 9.984717 | 6 | 20 | |
| 39.5 | 50 | 9.416205 | 78 | 9.431494 | 84 | 0.568506 | 9.984712 | 6 | 10 | |
| 47.4 | 0 | 9.416283 | 78 | 9.431577 | 83 | 0.568423 | 9.984706 | 6 | 0 | 53 |
| 55.3 | 10 | 9.416361 | 78 | 9.431661 | 84 | 0.568339 | 9.984700 | 6 | 50 | |
| 63.2 | 20 | 9.416439 | 78 | 9.431745 | 84 | 0.568255 | 9.984694 | 6 | 40 | |
| 71.1 | 30 | 9.416517 | 78 | 9.431828 | 83 | 0.568172 | 9.984689 | 6 | 30 | |
| | 40 | 9.416595 | 78 | 9.431912 | 84 | 0.568088 | 9.984683 | 6 | 20 | |
| | 50 | 9.416673 | 78 | 9.431995 | 83 | 0.568005 | 9.984677 | 6 | 10 | |
| 78 | 0 | 9.416751 | 78 | 9.432079 | 84 | 0.567921 | 9.984672 | 6 | 0 | 52 |
| 7.8 | 10 | 9.416828 | 77 | 9.432162 | 83 | 0.567838 | 9.984666 | 6 | 50 | |
| 15.6 | 20 | 9.416906 | 78 | 9.432246 | 84 | 0.567754 | 9.984660 | 6 | 40 | |
| 23.4 | 30 | 9.416984 | 78 | 9.432329 | 84 | 0.567671 | 9.984655 | 6 | 30 | |
| 31.2 | 40 | 9.417062 | 78 | 9.432413 | 83 | 0.567587 | 9.984649 | 6 | 20 | |
| 39.0 | 50 | 9.417140 | 78 | 9.432496 | 84 | 0.567504 | 9.984643 | 6 | 10 | |
| 46.8 | 0 | 9.417217 | 77 | 9.432580 | 84 | 0.567420 | 9.984638 | 6 | 0 | 51 |
| 54.6 | 10 | 9.417295 | 78 | 9.432663 | 83 | 0.567337 | 9.984632 | 6 | 50 | |
| 62.4 | 20 | 9.417373 | 78 | 9.432747 | 84 | 0.567253 | 9.984626 | 6 | 40 | |
| 70.2 | 30 | 9.417451 | 78 | 9.432830 | 84 | 0.567170 | 9.984620 | 6 | 30 | |
| | 40 | 9.417528 | 77 | 9.432914 | 83 | 0.567086 | 9.984615 | 6 | 20 | |
| | 50 | 9.417606 | 78 | 9.432997 | 84 | 0.567003 | 9.984609 | 6 | 10 | |
| | 0 | 9.417684 | 78 | 9.433080 | 83 | 0.566920 | 9.984603 | 6 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.417684 | 77 | 9.433080 | 84 | 0.566920 | 9.984603 | 5 | 0 | 50 |
| | 10 | 9.417761 | 78 | 9.433164 | 83 | 0.566836 | 9.984598 | 6 | 50 | |
| | 20 | 9.417839 | 78 | 9.433247 | 84 | 0.566753 | 9.984592 | 6 | 40 | |
| | 30 | 9.417917 | 77 | 9.433331 | 83 | 0.566669 | 9.984586 | 6 | 30 | |
| | 40 | 9.417994 | 77 | 9.433414 | 83 | 0.566586 | 9.984580 | 6 | 20 | |
| | 50 | 9.418072 | 78 | 9.433497 | 83 | 0.566503 | 9.984575 | 6 | 10 | |
| 11 | 0 | 9.418150 | 77 | 9.433580 | 84 | 0.566420 | 9.984569 | 6 | 0 | 49 |
| | 10 | 9.418227 | 78 | 9.433664 | 83 | 0.566336 | 9.984563 | 5 | 50 | |
| | 20 | 9.418305 | 77 | 9.433747 | 83 | 0.566253 | 9.984558 | 6 | 40 | |
| | 30 | 9.418382 | 77 | 9.433830 | 83 | 0.566170 | 9.984552 | 6 | 30 | |
| | 40 | 9.418460 | 78 | 9.433914 | 84 | 0.566086 | 9.984546 | 6 | 20 | |
| | 50 | 9.418537 | 78 | 9.433997 | 83 | 0.566003 | 9.984540 | 5 | 10 | |
| 12 | 0 | 9.418615 | 77 | 9.434080 | 83 | 0.565920 | 9.984535 | 6 | 0 | 48 |
| | 10 | 9.418692 | 78 | 9.434163 | 83 | 0.565837 | 9.984529 | 6 | 50 | |
| | 20 | 9.418770 | 78 | 9.434246 | 83 | 0.565754 | 9.984523 | 5 | 40 | |
| | 30 | 9.418847 | 77 | 9.434330 | 84 | 0.565670 | 9.984518 | 6 | 30 | |
| | 40 | 9.418925 | 78 | 9.434413 | 83 | 0.565587 | 9.984512 | 6 | 20 | |
| | 50 | 9.419002 | 77 | 9.434496 | 83 | 0.565504 | 9.984506 | 6 | 10 | |
| 13 | 0 | 9.419079 | 78 | 9.434579 | 83 | 0.565421 | 9.984500 | 5 | 0 | 47 |
| | 10 | 9.419157 | 77 | 9.434662 | 83 | 0.565338 | 9.984495 | 6 | 50 | |
| | 20 | 9.419234 | 78 | 9.434745 | 83 | 0.565255 | 9.984489 | 6 | 40 | |
| | 30 | 9.419312 | 78 | 9.434828 | 83 | 0.565172 | 9.984483 | 6 | 30 | |
| | 40 | 9.419389 | 77 | 9.434912 | 84 | 0.565088 | 9.984477 | 6 | 20 | |
| | 50 | 9.419466 | 78 | 9.434995 | 83 | 0.565005 | 9.984472 | 5 | 10 | |
| 14 | 0 | 9.419544 | 77 | 9.435078 | 83 | 0.564922 | 9.984466 | 6 | 0 | 46 |
| | 10 | 9.419621 | 78 | 9.435161 | 83 | 0.564839 | 9.984460 | 6 | 50 | |
| | 20 | 9.419698 | 78 | 9.435244 | 83 | 0.564756 | 9.984455 | 5 | 40 | |
| | 30 | 9.419776 | 77 | 9.435327 | 83 | 0.564673 | 9.984449 | 6 | 30 | |
| | 40 | 9.419853 | 77 | 9.435410 | 83 | 0.564590 | 9.984443 | 6 | 20 | |
| | 50 | 9.419930 | 77 | 9.435493 | 83 | 0.564507 | 9.984437 | 5 | 10 | |
| 15 | 0 | 9.420007 | 78 | 9.435576 | 83 | 0.564424 | 9.984432 | 6 | 0 | 45 |
| | 10 | 9.420085 | 77 | 9.435659 | 83 | 0.564341 | 9.984426 | 6 | 50 | |
| | 20 | 9.420162 | 77 | 9.435742 | 83 | 0.564258 | 9.984420 | 6 | 40 | |
| | 30 | 9.420239 | 77 | 9.435825 | 82 | 0.564175 | 9.984414 | 6 | 30 | |
| | 40 | 9.420316 | 77 | 9.435907 | 82 | 0.564093 | 9.984409 | 5 | 20 | |
| | 50 | 9.420393 | 77 | 9.435990 | 83 | 0.564010 | 9.984403 | 6 | 10 | |
| 16 | 0 | 9.420470 | 78 | 9.436073 | 83 | 0.563927 | 9.984397 | 6 | 0 | 44 |
| | 10 | 9.420548 | 78 | 9.436156 | 83 | 0.563844 | 9.984391 | 6 | 50 | |
| | 20 | 9.420625 | 77 | 9.436239 | 83 | 0.563761 | 9.984386 | 5 | 40 | |
| | 30 | 9.420702 | 77 | 9.436322 | 83 | 0.563678 | 9.984380 | 6 | 30 | |
| | 40 | 9.420779 | 77 | 9.436405 | 83 | 0.563595 | 9.984374 | 6 | 20 | |
| | 50 | 9.420856 | 77 | 9.436488 | 82 | 0.563512 | 9.984368 | 6 | 10 | |
| 17 | 0 | 9.420933 | 77 | 9.436570 | 83 | 0.563430 | 9.984363 | 5 | 0 | 43 |
| | 10 | 9.421010 | 77 | 9.436653 | 83 | 0.563347 | 9.984357 | 6 | 50 | |
| | 20 | 9.421087 | 77 | 9.436736 | 83 | 0.563264 | 9.984351 | 6 | 40 | |
| | 30 | 9.421164 | 77 | 9.436819 | 82 | 0.563181 | 9.984345 | 6 | 30 | |
| | 40 | 9.421241 | 77 | 9.436901 | 83 | 0.563099 | 9.984340 | 5 | 20 | |
| | 50 | 9.421318 | 77 | 9.436984 | 83 | 0.563016 | 9.984334 | 6 | 10 | |
| 18 | 0 | 9.421395 | 77 | 9.437067 | 83 | 0.562933 | 9.984328 | 6 | 0 | 42 |
| | 10 | 9.421472 | 77 | 9.437150 | 82 | 0.562850 | 9.984322 | 6 | 50 | |
| | 20 | 9.421549 | 77 | 9.437232 | 83 | 0.562768 | 9.984317 | 5 | 40 | |
| | 30 | 9.421626 | 77 | 9.437315 | 83 | 0.562685 | 9.984311 | 6 | 30 | |
| | 40 | 9.421703 | 77 | 9.437398 | 83 | 0.562602 | 9.984305 | 6 | 20 | |
| | 50 | 9.421780 | 77 | 9.437480 | 82 | 0.562520 | 9.984299 | 6 | 10 | |
| 19 | 0 | 9.421857 | 77 | 9.437563 | 83 | 0.562437 | 9.984294 | 5 | 0 | 41 |
| | 10 | 9.421933 | 76 | 9.437646 | 83 | 0.562354 | 9.984288 | 6 | 50 | |
| | 20 | 9.422010 | 77 | 9.437728 | 82 | 0.562272 | 9.984282 | 6 | 40 | |
| | 30 | 9.422087 | 77 | 9.437811 | 83 | 0.562189 | 9.984276 | 6 | 30 | |
| | 40 | 9.422164 | 77 | 9.437894 | 83 | 0.562106 | 9.984270 | 6 | 20 | |
| | 50 | 9.422241 | 77 | 9.437976 | 82 | 0.562024 | 9.984265 | 5 | 10 | |
| 20 | 0 | 9.422318 | 77 | 9.438059 | 83 | 0.561941 | 9.984259 | 6 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | 9.422318 | 76 | 9.438059 | 82 | 0.561941 | 9.984259 | 6 | 0 | 40 |
| | 10 | 9.422394 | 77 | 9.438141 | 83 | 0.561859 | 9.984253 | 6 | 50 | |
| | 20 | 9.422471 | 77 | 9.438224 | 82 | 0.561776 | 9.984247 | 5 | 40 | |
| | 30 | 9.422548 | 77 | 9.438306 | 82 | 0.561694 | 9.984242 | 5 | 30 | |
| | 40 | 9.422625 | 77 | 9.438389 | 83 | 0.561611 | 9.984236 | 6 | 20 | |
| | 50 | 9.422701 | 76 | 9.438471 | 82 | 0.561529 | 9.984230 | 6 | 10 | |
| 21 | 0 | 9.422778 | 77 | 9.438554 | 83 | 0.561446 | 9.984224 | 6 | 0 | 39 |
| | 10 | 9.422855 | 76 | 9.438636 | 82 | 0.561364 | 9.984218 | 6 | 50 | |
| | 20 | 9.422931 | 77 | 9.438719 | 82 | 0.561281 | 9.984213 | 5 | 40 | |
| | 30 | 9.423008 | 77 | 9.438801 | 82 | 0.561199 | 9.984207 | 5 | 30 | |
| | 40 | 9.423085 | 77 | 9.438884 | 83 | 0.561116 | 9.984201 | 6 | 20 | |
| | 50 | 9.423161 | 76 | 9.438966 | 82 | 0.561034 | 9.984195 | 6 | 10 | |
| 22 | 0 | 9.423238 | 77 | 9.439048 | 82 | 0.560952 | 9.984190 | 5 | 0 | 38 |
| | 10 | 9.423315 | 77 | 9.439131 | 83 | 0.560869 | 9.984184 | 6 | 50 | |
| | 20 | 9.423391 | 76 | 9.439213 | 82 | 0.560787 | 9.984178 | 6 | 40 | |
| | 30 | 9.423468 | 77 | 9.439296 | 83 | 0.560704 | 9.984172 | 6 | 30 | |
| | 40 | 9.423544 | 76 | 9.439378 | 82 | 0.560622 | 9.984166 | 6 | 20 | |
| | 50 | 9.423621 | 77 | 9.439460 | 82 | 0.560540 | 9.984161 | 5 | 10 | |
| 23 | 0 | 9.423697 | 76 | 9.439543 | 83 | 0.560457 | 9.984155 | 6 | 0 | 37 |
| | 10 | 9.423774 | 77 | 9.439625 | 82 | 0.560375 | 9.984149 | 6 | 50 | |
| | 20 | 9.423850 | 76 | 9.439707 | 82 | 0.560293 | 9.984143 | 6 | 40 | |
| | 30 | 9.423927 | 77 | 9.439790 | 83 | 0.560210 | 9.984137 | 6 | 30 | |
| | 40 | 9.424003 | 76 | 9.439872 | 82 | 0.560128 | 9.984132 | 5 | 20 | |
| | 50 | 9.424080 | 77 | 9.439954 | 82 | 0.560046 | 9.984126 | 6 | 10 | |
| 24 | 0 | 9.424156 | 77 | 9.440036 | 82 | 0.559964 | 9.984120 | 6 | 0 | 36 |
| | 10 | 9.424233 | 77 | 9.440119 | 83 | 0.559881 | 9.984114 | 6 | 50 | |
| | 20 | 9.424309 | 76 | 9.440201 | 82 | 0.559799 | 9.984108 | 6 | 40 | |
| | 30 | 9.424386 | 77 | 9.440283 | 82 | 0.559717 | 9.984103 | 5 | 30 | |
| | 40 | 9.424462 | 76 | 9.440365 | 82 | 0.559635 | 9.984097 | 6 | 20 | |
| | 50 | 9.424538 | 77 | 9.440447 | 82 | 0.559553 | 9.984091 | 6 | 10 | |
| 25 | 0 | 9.424615 | 76 | 9.440529 | 83 | 0.559471 | 9.984085 | 6 | 0 | 35 |
| | 10 | 9.424691 | 76 | 9.440612 | 82 | 0.559388 | 9.984079 | 6 | 50 | |
| | 20 | 9.424767 | 77 | 9.440694 | 82 | 0.559306 | 9.984074 | 5 | 40 | |
| | 30 | 9.424844 | 77 | 9.440776 | 82 | 0.559224 | 9.984068 | 6 | 30 | |
| | 40 | 9.424920 | 76 | 9.440858 | 82 | 0.559142 | 9.984062 | 6 | 20 | |
| | 50 | 9.424996 | 76 | 9.440940 | 82 | 0.559060 | 9.984056 | 6 | 10 | |
| 26 | 0 | 9.425073 | 77 | 9.441022 | 82 | 0.558978 | 9.984050 | 6 | 0 | 34 |
| | 10 | 9.425149 | 76 | 9.441104 | 82 | 0.558896 | 9.984045 | 5 | 50 | |
| | 20 | 9.425225 | 76 | 9.441186 | 82 | 0.558814 | 9.984039 | 6 | 40 | |
| | 30 | 9.425301 | 76 | 9.441268 | 82 | 0.558732 | 9.984033 | 6 | 30 | |
| | 40 | 9.425378 | 77 | 9.441350 | 82 | 0.558650 | 9.984027 | 6 | 20 | |
| | 50 | 9.425454 | 76 | 9.441432 | 82 | 0.558568 | 9.984021 | 6 | 10 | |
| 27 | 0 | 9.425530 | 76 | 9.441514 | 82 | 0.558486 | 9.984015 | 6 | 0 | 33 |
| | 10 | 9.425606 | 76 | 9.441596 | 82 | 0.558404 | 9.984010 | 5 | 50 | |
| | 20 | 9.425682 | 76 | 9.441678 | 82 | 0.558322 | 9.984004 | 6 | 40 | |
| | 30 | 9.425758 | 76 | 9.441760 | 82 | 0.558240 | 9.983998 | 6 | 30 | |
| | 40 | 9.425835 | 77 | 9.441842 | 82 | 0.558158 | 9.983992 | 6 | 20 | |
| | 50 | 9.425911 | 76 | 9.441924 | 82 | 0.558076 | 9.983986 | 6 | 10 | |
| 28 | 0 | 9.425987 | 76 | 9.442006 | 82 | 0.557994 | 9.983981 | 5 | 0 | 32 |
| | 10 | 9.426063 | 76 | 9.442088 | 82 | 0.557912 | 9.983975 | 6 | 50 | |
| | 20 | 9.426139 | 76 | 9.442170 | 82 | 0.557830 | 9.983969 | 6 | 40 | |
| | 30 | 9.426215 | 76 | 9.442252 | 82 | 0.557748 | 9.983963 | 6 | 30 | |
| | 40 | 9.426291 | 76 | 9.442334 | 82 | 0.557666 | 9.983957 | 6 | 20 | |
| | 50 | 9.426367 | 76 | 9.442416 | 82 | 0.557584 | 9.983951 | 6 | 10 | |
| 29 | 0 | 9.426443 | 76 | 9.442497 | 81 | 0.557503 | 9.983946 | 5 | 0 | 31 |
| | 10 | 9.426519 | 76 | 9.442579 | 82 | 0.557421 | 9.983940 | 6 | 50 | |
| | 20 | 9.426595 | 76 | 9.442661 | 82 | 0.557339 | 9.983934 | 6 | 40 | |
| | 30 | 9.426671 | 76 | 9.442743 | 82 | 0.557257 | 9.983928 | 6 | 30 | |
| | 40 | 9.426747 | 76 | 9.442825 | 82 | 0.557175 | 9.983922 | 6 | 20 | |
| | 50 | 9.426823 | 76 | 9.442907 | 82 | 0.557093 | 9.983916 | 6 | 10 | |
| 30 | 0 | 9.426899 | 76 | 9.442988 | 81 | 0.557012 | 9.983911 | 5 | 0 | 30 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|---|----|----|
| 30 | 0 | 9.426899 | 76 | 9.442988 | 82 | 0.557012 | 9.983911 | 6 | 0 | 30 |
| | 10 | 9.426975 | 76 | 9.443070 | 82 | 0.556930 | 9.983905 | 6 | 50 | |
| | 20 | 9.427051 | 76 | 9.443152 | 82 | 0.556848 | 9.983899 | 6 | 40 | |
| | 30 | 9.427127 | 75 | 9.443234 | 81 | 0.556766 | 9.983893 | 6 | 30 | |
| | 40 | 9.427202 | 75 | 9.443315 | 82 | 0.556685 | 9.983887 | 6 | 20 | |
| | 50 | 9.427278 | 76 | 9.443397 | 82 | 0.556603 | 9.983881 | 6 | 10 | |
| 31 | 0 | 9.427354 | 76 | 9.443479 | 81 | 0.556521 | 9.983875 | 5 | 0 | 29 |
| | 10 | 9.427430 | 76 | 9.443560 | 82 | 0.556440 | 9.983870 | 5 | 50 | |
| | 20 | 9.427506 | 76 | 9.443642 | 82 | 0.556358 | 9.983864 | 6 | 40 | |
| | 30 | 9.427582 | 75 | 9.443724 | 81 | 0.556276 | 9.983858 | 6 | 30 | |
| | 40 | 9.427657 | 76 | 9.443805 | 82 | 0.556195 | 9.983852 | 6 | 20 | |
| | 50 | 9.427733 | 76 | 9.443887 | 81 | 0.556113 | 9.983846 | 6 | 10 | |
| 32 | 0 | 9.427809 | 76 | 9.443968 | 82 | 0.556032 | 9.983840 | 5 | 0 | 28 |
| | 10 | 9.427885 | 75 | 9.444050 | 82 | 0.555950 | 9.983835 | 5 | 50 | |
| | 20 | 9.427960 | 76 | 9.444132 | 81 | 0.555868 | 9.983829 | 6 | 40 | |
| | 30 | 9.428036 | 76 | 9.444213 | 82 | 0.555787 | 9.983823 | 6 | 30 | |
| | 40 | 9.428112 | 75 | 9.444295 | 81 | 0.555705 | 9.983817 | 6 | 20 | |
| | 50 | 9.428187 | 76 | 9.444376 | 82 | 0.555624 | 9.983811 | 6 | 10 | |
| 33 | 0 | 9.428263 | 76 | 9.444458 | 81 | 0.555542 | 9.983805 | 6 | 0 | 27 |
| | 10 | 9.428339 | 75 | 9.444539 | 82 | 0.555461 | 9.983799 | 5 | 50 | |
| | 20 | 9.428414 | 76 | 9.444621 | 81 | 0.555379 | 9.983794 | 6 | 40 | |
| | 30 | 9.428490 | 76 | 9.444702 | 82 | 0.555298 | 9.983788 | 6 | 30 | |
| | 40 | 9.428566 | 75 | 9.444784 | 81 | 0.555216 | 9.983782 | 6 | 20 | |
| | 50 | 9.428641 | 76 | 9.444865 | 82 | 0.555135 | 9.983776 | 6 | 10 | |
| 34 | 0 | 9.428717 | 75 | 9.444947 | 81 | 0.555053 | 9.983770 | 6 | 0 | 26 |
| | 10 | 9.428792 | 76 | 9.445028 | 82 | 0.554972 | 9.983764 | 6 | 50 | |
| | 20 | 9.428868 | 76 | 9.445110 | 81 | 0.554890 | 9.983758 | 6 | 40 | |
| | 30 | 9.428944 | 75 | 9.445191 | 81 | 0.554809 | 9.983752 | 5 | 30 | |
| | 40 | 9.429019 | 76 | 9.445272 | 82 | 0.554728 | 9.983747 | 6 | 20 | |
| | 50 | 9.429095 | 75 | 9.445354 | 81 | 0.554646 | 9.983741 | 6 | 10 | |
| 35 | 0 | 9.429170 | 76 | 9.445435 | 82 | 0.554565 | 9.983735 | 6 | 0 | 25 |
| | 10 | 9.429246 | 75 | 9.445517 | 81 | 0.554483 | 9.983729 | 6 | 50 | |
| | 20 | 9.429321 | 76 | 9.445598 | 81 | 0.554402 | 9.983723 | 6 | 40 | |
| | 30 | 9.429397 | 75 | 9.445679 | 82 | 0.554321 | 9.983717 | 6 | 30 | |
| | 40 | 9.429472 | 75 | 9.445761 | 81 | 0.554239 | 9.983711 | 6 | 20 | |
| | 50 | 9.429547 | 76 | 9.445842 | 81 | 0.554158 | 9.983705 | 5 | 10 | |
| 36 | 0 | 9.429623 | 75 | 9.445923 | 82 | 0.554077 | 9.983700 | 5 | 0 | 24 |
| | 10 | 9.429698 | 76 | 9.446005 | 81 | 0.553995 | 9.983694 | 6 | 50 | |
| | 20 | 9.429774 | 75 | 9.446086 | 81 | 0.553914 | 9.983688 | 6 | 40 | |
| | 30 | 9.429849 | 75 | 9.446167 | 81 | 0.553833 | 9.983682 | 6 | 30 | |
| | 40 | 9.429924 | 75 | 9.446248 | 82 | 0.553752 | 9.983676 | 6 | 20 | |
| | 50 | 9.430000 | 76 | 9.446330 | 81 | 0.553670 | 9.983670 | 6 | 10 | |
| 37 | 0 | 9.430075 | 75 | 9.446411 | 81 | 0.553589 | 9.983664 | 6 | 0 | 23 |
| | 10 | 9.430150 | 76 | 9.446492 | 81 | 0.553508 | 9.983658 | 5 | 50 | |
| | 20 | 9.430226 | 75 | 9.446573 | 81 | 0.553427 | 9.983653 | 5 | 40 | |
| | 30 | 9.430301 | 75 | 9.446654 | 81 | 0.553346 | 9.983647 | 6 | 30 | |
| | 40 | 9.430376 | 75 | 9.446735 | 82 | 0.553265 | 9.983641 | 6 | 20 | |
| | 50 | 9.430451 | 76 | 9.446817 | 81 | 0.553183 | 9.983635 | 6 | 10 | |
| 38 | 0 | 9.430527 | 75 | 9.446898 | 81 | 0.553102 | 9.983629 | 6 | 0 | 22 |
| | 10 | 9.430602 | 75 | 9.446979 | 81 | 0.553021 | 9.983623 | 6 | 50 | |
| | 20 | 9.430677 | 75 | 9.447060 | 81 | 0.552940 | 9.983617 | 6 | 40 | |
| | 30 | 9.430752 | 75 | 9.447141 | 81 | 0.552859 | 9.983611 | 6 | 30 | |
| | 40 | 9.430828 | 76 | 9.447222 | 81 | 0.552778 | 9.983605 | 6 | 20 | |
| | 50 | 9.430903 | 75 | 9.447303 | 81 | 0.552697 | 9.983599 | 5 | 10 | |
| 39 | 0 | 9.430978 | 75 | 9.447384 | 81 | 0.552616 | 9.983594 | 5 | 0 | 21 |
| | 10 | 9.431053 | 75 | 9.447465 | 81 | 0.552535 | 9.983588 | 6 | 50 | |
| | 20 | 9.431128 | 75 | 9.447546 | 81 | 0.552454 | 9.983582 | 6 | 40 | |
| | 30 | 9.431203 | 75 | 9.447627 | 81 | 0.552373 | 9.983576 | 6 | 30 | |
| | 40 | 9.431278 | 76 | 9.447708 | 81 | 0.552292 | 9.983570 | 6 | 20 | |
| | 50 | 9.431354 | 75 | 9.447789 | 81 | 0.552211 | 9.983564 | 6 | 10 | |
| 40 | 0 | 9.431429 | 75 | 9.447870 | 81 | 0.552130 | 9.983558 | 6 | 0 | 20 |

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| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 40 | o | 9.431429 | 75 | 9.447870 | 81 | 0.552130 | 9.983558 | 6 | o | 20 |
| | 10 | 9.431504 | 75 | 9.447951 | 81 | 0.552049 | 9.983552 | 6 | 50 | |
| | 20 | 9.431579 | 75 | 9.448032 | 81 | 0.551968 | 9.983546 | 6 | 40 | |
| | 30 | 9.431654 | 75 | 9.448113 | 81 | 0.551887 | 9.983540 | 5 | 30 | |
| | 40 | 9.431729 | 75 | 9.448194 | 81 | 0.551806 | 9.983535 | 5 | 20 | |
| | 50 | 9.431804 | 75 | 9.448275 | 81 | 0.551725 | 9.983529 | 6 | 10 | |
| 41 | o | 9.431879 | 75 | 9.448356 | 81 | 0.551644 | 9.983523 | 6 | o | 19 |
| | 10 | 9.431954 | 75 | 9.448437 | 81 | 0.551563 | 9.983517 | 6 | 50 | |
| | 20 | 9.432029 | 75 | 9.448518 | 81 | 0.551482 | 9.983511 | 6 | 40 | |
| | 30 | 9.432104 | 75 | 9.448599 | 81 | 0.551401 | 9.983505 | 6 | 30 | |
| | 40 | 9.432179 | 75 | 9.448680 | 80 | 0.551320 | 9.983499 | 6 | 20 | |
| | 50 | 9.432254 | 75 | 9.448760 | 81 | 0.551240 | 9.983493 | 6 | 10 | |
| 42 | o | 9.432329 | 74 | 9.448841 | 81 | 0.551159 | 9.983487 | 6 | o | 18 |
| | 10 | 9.432403 | 75 | 9.448922 | 81 | 0.551078 | 9.983481 | 6 | 50 | |
| | 20 | 9.432478 | 75 | 9.449003 | 81 | 0.550997 | 9.983475 | 6 | 40 | |
| | 30 | 9.432553 | 75 | 9.449084 | 80 | 0.550916 | 9.983469 | 5 | 30 | |
| | 40 | 9.432628 | 75 | 9.449164 | 81 | 0.550836 | 9.983464 | 5 | 20 | |
| | 50 | 9.432703 | 75 | 9.449245 | 81 | 0.550755 | 9.983458 | 6 | 10 | |
| 43 | o | 9.432778 | 75 | 9.449326 | 81 | 0.550674 | 9.983452 | 6 | o | 17 |
| | 10 | 9.432853 | 74 | 9.449407 | 80 | 0.550593 | 9.983446 | 6 | 50 | |
| | 20 | 9.432927 | 75 | 9.449487 | 81 | 0.550513 | 9.983440 | 6 | 40 | |
| | 30 | 9.433002 | 75 | 9.449568 | 81 | 0.550432 | 9.983434 | 6 | 30 | |
| | 40 | 9.433077 | 75 | 9.449649 | 81 | 0.550351 | 9.983428 | 6 | 20 | |
| | 50 | 9.433152 | 74 | 9.449730 | 80 | 0.550270 | 9.983422 | 6 | 10 | |
| 44 | o | 9.433226 | 75 | 9.449810 | 81 | 0.550190 | 9.983416 | 6 | o | 16 |
| | 10 | 9.433301 | 75 | 9.449891 | 81 | 0.550109 | 9.983410 | 6 | 50 | |
| | 20 | 9.433376 | 75 | 9.449972 | 81 | 0.550028 | 9.983404 | 6 | 40 | |
| | 30 | 9.433451 | 75 | 9.450052 | 81 | 0.549948 | 9.983398 | 6 | 30 | |
| | 40 | 9.433525 | 74 | 9.450133 | 80 | 0.549867 | 9.983392 | 6 | 20 | |
| | 50 | 9.433600 | 75 | 9.450213 | 81 | 0.549787 | 9.983386 | 5 | 10 | |
| 45 | o | 9.433675 | 74 | 9.450294 | 81 | 0.549706 | 9.983381 | 5 | o | 15 |
| | 10 | 9.433749 | 75 | 9.450375 | 80 | 0.549625 | 9.983375 | 6 | 50 | |
| | 20 | 9.433824 | 75 | 9.450455 | 81 | 0.549545 | 9.983369 | 6 | 40 | |
| | 30 | 9.433898 | 74 | 9.450536 | 80 | 0.549464 | 9.983363 | 6 | 30 | |
| | 40 | 9.433973 | 75 | 9.450616 | 81 | 0.549384 | 9.983357 | 6 | 20 | |
| | 50 | 9.434048 | 75 | 9.450697 | 80 | 0.549303 | 9.983351 | 6 | 10 | |
| 46 | o | 9.434122 | 75 | 9.450777 | 81 | 0.549223 | 9.983345 | 6 | o | 14 |
| | 10 | 9.434197 | 74 | 9.450858 | 80 | 0.549142 | 9.983339 | 6 | 50 | |
| | 20 | 9.434271 | 75 | 9.450938 | 81 | 0.549062 | 9.983333 | 6 | 40 | |
| | 30 | 9.434346 | 75 | 9.451019 | 81 | 0.548981 | 9.983327 | 6 | 30 | |
| | 40 | 9.434420 | 74 | 9.451099 | 80 | 0.548901 | 9.983321 | 6 | 20 | |
| | 50 | 9.434495 | 75 | 9.451180 | 80 | 0.548820 | 9.983315 | 6 | 10 | |
| 47 | o | 9.434569 | 75 | 9.451260 | 81 | 0.548740 | 9.983309 | 6 | o | 13 |
| | 10 | 9.434644 | 74 | 9.451341 | 80 | 0.548659 | 9.983303 | 6 | 50 | |
| | 20 | 9.434718 | 75 | 9.451421 | 81 | 0.548579 | 9.983297 | 6 | 40 | |
| | 30 | 9.434793 | 75 | 9.451502 | 80 | 0.548498 | 9.983291 | 6 | 30 | |
| | 40 | 9.434867 | 74 | 9.451582 | 80 | 0.548418 | 9.983285 | 6 | 20 | |
| | 50 | 9.434942 | 75 | 9.451662 | 81 | 0.548338 | 9.983279 | 6 | 10 | |
| 48 | o | 9.435016 | 75 | 9.451743 | 80 | 0.548257 | 9.983273 | 5 | o | 12 |
| | 10 | 9.435091 | 74 | 9.451823 | 80 | 0.548177 | 9.983267 | 6 | 50 | |
| | 20 | 9.435165 | 75 | 9.451903 | 81 | 0.548097 | 9.983262 | 6 | 40 | |
| | 30 | 9.435239 | 74 | 9.451984 | 80 | 0.548016 | 9.983256 | 6 | 30 | |
| | 40 | 9.435314 | 75 | 9.452064 | 80 | 0.547936 | 9.983250 | 6 | 20 | |
| | 50 | 9.435388 | 74 | 9.452144 | 81 | 0.547856 | 9.983244 | 6 | 10 | |
| 49 | o | 9.435462 | 75 | 9.452225 | 80 | 0.547775 | 9.983238 | 6 | o | 11 |
| | 10 | 9.435537 | 74 | 9.452305 | 80 | 0.547695 | 9.983232 | 6 | 50 | |
| | 20 | 9.435611 | 75 | 9.452385 | 81 | 0.547615 | 9.983226 | 6 | 40 | |
| | 30 | 9.435685 | 74 | 9.452465 | 80 | 0.547535 | 9.983220 | 6 | 30 | |
| | 40 | 9.435760 | 75 | 9.452546 | 81 | 0.547454 | 9.983214 | 6 | 20 | |
| | 50 | 9.435834 | 74 | 9.452626 | 80 | 0.547374 | 9.983208 | 6 | 10 | |
| 50 | o | 9.435908 | 74 | 9.452706 | 80 | 0.547294 | 9.983202 | 6 | o | 10 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.435908 | 74 | 9.452706 | 80 | 0.547294 | 9.983202 | 6 | 0 | 10 |
| | 10 | 9.435982 | 74 | 9.452786 | 81 | 0.547214 | 9.983196 | 6 | 50 | |
| | 20 | 9.436056 | 74 | 9.452867 | 80 | 0.547133 | 9.983190 | 6 | 40 | |
| | 30 | 9.436131 | 75 | 9.452947 | 80 | 0.547053 | 9.983184 | 6 | 30 | |
| | 40 | 9.436205 | 74 | 9.453027 | 80 | 0.546973 | 9.983178 | 6 | 20 | |
| | 50 | 9.436279 | 74 | 9.453107 | 80 | 0.546893 | 9.983172 | 6 | 10 | |
| 51 | 0 | 9.436353 | 74 | 9.453187 | 80 | 0.546813 | 9.983166 | 6 | 0 | 9 |
| | 10 | 9.436427 | 75 | 9.453267 | 80 | 0.546733 | 9.983160 | 6 | 50 | |
| | 20 | 9.436502 | 74 | 9.453347 | 81 | 0.546653 | 9.983154 | 6 | 40 | |
| | 30 | 9.436576 | 74 | 9.453428 | 80 | 0.546572 | 9.983148 | 6 | 30 | |
| | 40 | 9.436650 | 74 | 9.453508 | 80 | 0.546492 | 9.983142 | 6 | 20 | |
| | 50 | 9.436724 | 74 | 9.453588 | 80 | 0.546412 | 9.983136 | 6 | 10 | |
| 52 | 0 | 9.436798 | 74 | 9.453668 | 80 | 0.546332 | 9.983130 | 6 | 0 | 8 |
| | 10 | 9.436872 | 74 | 9.453748 | 80 | 0.546252 | 9.983124 | 6 | 50 | |
| | 20 | 9.436946 | 74 | 9.453828 | 80 | 0.546172 | 9.983118 | 6 | 40 | |
| | 30 | 9.437020 | 74 | 9.453908 | 80 | 0.546092 | 9.983112 | 6 | 30 | |
| | 40 | 9.437094 | 74 | 9.453988 | 80 | 0.546012 | 9.983106 | 6 | 20 | |
| | 50 | 9.437168 | 74 | 9.454068 | 80 | 0.545932 | 9.983100 | 6 | 10 | |
| 53 | 0 | 9.437242 | 74 | 9.454148 | 80 | 0.545852 | 9.983094 | 6 | 0 | 7 |
| | 10 | 9.437316 | 74 | 9.454228 | 80 | 0.545772 | 9.983088 | 6 | 50 | |
| | 20 | 9.437390 | 74 | 9.454308 | 80 | 0.545692 | 9.983082 | 6 | 40 | |
| | 30 | 9.437464 | 74 | 9.454388 | 80 | 0.545612 | 9.983076 | 6 | 30 | |
| | 40 | 9.437538 | 74 | 9.454468 | 80 | 0.545532 | 9.983070 | 6 | 20 | |
| | 50 | 9.437612 | 74 | 9.454548 | 80 | 0.545452 | 9.983064 | 6 | 10 | |
| 54 | 0 | 9.437686 | 74 | 9.454628 | 80 | 0.545372 | 9.983058 | 6 | 0 | 6 |
| | 10 | 9.437760 | 74 | 9.454708 | 79 | 0.545292 | 9.983052 | 6 | 50 | |
| | 20 | 9.437834 | 74 | 9.454787 | 80 | 0.545213 | 9.983046 | 6 | 40 | |
| | 30 | 9.437908 | 73 | 9.454867 | 80 | 0.545133 | 9.983040 | 6 | 30 | |
| | 40 | 9.437981 | 73 | 9.454947 | 80 | 0.545053 | 9.983034 | 6 | 20 | |
| | 50 | 9.438055 | 74 | 9.455027 | 80 | 0.544973 | 9.983028 | 6 | 10 | |
| 55 | 0 | 9.438129 | 74 | 9.455107 | 80 | 0.544893 | 9.983022 | 6 | 0 | 5 |
| | 10 | 9.438203 | 74 | 9.455187 | 80 | 0.544813 | 9.983016 | 6 | 50 | |
| | 20 | 9.438277 | 74 | 9.455267 | 79 | 0.544733 | 9.983010 | 6 | 40 | |
| | 30 | 9.438351 | 74 | 9.455346 | 80 | 0.544654 | 9.983004 | 6 | 30 | |
| | 40 | 9.438424 | 73 | 9.455426 | 80 | 0.544574 | 9.982998 | 6 | 20 | |
| | 50 | 9.438498 | 74 | 9.455506 | 80 | 0.544494 | 9.982992 | 6 | 10 | |
| 56 | 0 | 9.438572 | 74 | 9.455586 | 79 | 0.544414 | 9.982986 | 6 | 0 | 4 |
| | 10 | 9.438646 | 73 | 9.455665 | 80 | 0.544335 | 9.982980 | 6 | 50 | |
| | 20 | 9.438719 | 73 | 9.455745 | 80 | 0.544255 | 9.982974 | 6 | 40 | |
| | 30 | 9.438793 | 74 | 9.455825 | 80 | 0.544175 | 9.982968 | 6 | 30 | |
| | 40 | 9.438867 | 74 | 9.455905 | 79 | 0.544095 | 9.982962 | 6 | 20 | |
| | 50 | 9.438941 | 73 | 9.455984 | 80 | 0.544016 | 9.982956 | 6 | 10 | |
| 57 | 0 | 9.439014 | 73 | 9.456064 | 80 | 0.543936 | 9.982950 | 6 | 0 | 3 |
| | 10 | 9.439088 | 74 | 9.456144 | 79 | 0.543856 | 9.982944 | 6 | 50 | |
| | 20 | 9.439162 | 74 | 9.456223 | 80 | 0.543777 | 9.982938 | 6 | 40 | |
| | 30 | 9.439235 | 73 | 9.456303 | 80 | 0.543697 | 9.982932 | 6 | 30 | |
| | 40 | 9.439309 | 74 | 9.456383 | 79 | 0.543617 | 9.982926 | 6 | 20 | |
| | 50 | 9.439382 | 73 | 9.456462 | 80 | 0.543538 | 9.982920 | 6 | 10 | |
| 58 | 0 | 9.439456 | 74 | 9.456542 | 80 | 0.543458 | 9.982914 | 6 | 0 | 2 |
| | 10 | 9.439530 | 73 | 9.456622 | 79 | 0.543378 | 9.982908 | 6 | 50 | |
| | 20 | 9.439603 | 73 | 9.456701 | 80 | 0.543299 | 9.982902 | 6 | 40 | |
| | 30 | 9.439677 | 74 | 9.456781 | 79 | 0.543219 | 9.982896 | 6 | 30 | |
| | 40 | 9.439750 | 73 | 9.456860 | 80 | 0.543140 | 9.982890 | 6 | 20 | |
| | 50 | 9.439824 | 74 | 9.456940 | 79 | 0.543060 | 9.982884 | 6 | 10 | |
| 59 | 0 | 9.439897 | 73 | 9.457019 | 80 | 0.542981 | 9.982878 | 6 | 0 | 1 |
| | 10 | 9.439971 | 74 | 9.457099 | 79 | 0.542901 | 9.982872 | 6 | 50 | |
| | 20 | 9.440044 | 73 | 9.457178 | 80 | 0.542822 | 9.982866 | 6 | 40 | |
| | 30 | 9.440118 | 74 | 9.457258 | 79 | 0.542742 | 9.982860 | 6 | 30 | |
| | 40 | 9.440191 | 73 | 9.457337 | 80 | 0.542663 | 9.982854 | 6 | 20 | |
| | 50 | 9.440265 | 74 | 9.457417 | 79 | 0.542583 | 9.982848 | 6 | 10 | |
| 60 | 0 | 9.440338 | 73 | 9.457496 | 79 | 0.542504 | 9.982842 | 6 | 0 | 0 |

80
1 8.0
2 16.0
3 24.0
4 32.0
5 40.0
6 48.0
7 56.0
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7 55.3
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9 71.1

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74
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6 44.4
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73
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79
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73
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8 58.4
9 65.7

| | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 0 | o | 9.440338 | 73 | 9.457496 | 80 | 0.542504 | 9.982842 | 6 | o | 60 |
| | 10 | 9.440411 | 74 | 9.457576 | 79 | 0.542424 | 9.982836 | 6 | 50 | |
| | 20 | 9.440485 | 73 | 9.457655 | 80 | 0.542345 | 9.982830 | 6 | 40 | |
| | 30 | 9.440558 | 74 | 9.457735 | 79 | 0.542265 | 9.982824 | 6 | 30 | |
| | 40 | 9.440632 | 73 | 9.457814 | 80 | 0.542186 | 9.982817 | 6 | 20 | |
| | 50 | 9.440705 | 73 | 9.457894 | 79 | 0.542106 | 9.982810 | 6 | 10 | |
| 1 | o | 9.440778 | 74 | 9.457973 | 79 | 0.542027 | 9.982805 | 6 | o | 59 |
| | 10 | 9.440852 | 73 | 9.458052 | 80 | 0.541948 | 9.982799 | 6 | 50 | |
| | 20 | 9.440925 | 73 | 9.458132 | 79 | 0.541868 | 9.982793 | 6 | 40 | |
| | 30 | 9.440998 | 74 | 9.458211 | 79 | 0.541789 | 9.982787 | 6 | 30 | |
| | 40 | 9.441072 | 73 | 9.458290 | 80 | 0.541710 | 9.982781 | 6 | 20 | |
| | 50 | 9.441145 | 73 | 9.458370 | 79 | 0.541630 | 9.982775 | 6 | 10 | |
| 2 | o | 9.441218 | 74 | 9.458449 | 79 | 0.541551 | 9.982769 | 6 | o | 58 |
| | 10 | 9.441292 | 73 | 9.458528 | 80 | 0.541472 | 9.982763 | 6 | 50 | |
| | 20 | 9.441365 | 73 | 9.458608 | 79 | 0.541392 | 9.982757 | 6 | 40 | |
| | 30 | 9.441438 | 73 | 9.458687 | 79 | 0.541313 | 9.982751 | 6 | 30 | |
| | 40 | 9.441511 | 73 | 9.458766 | 80 | 0.541234 | 9.982745 | 6 | 20 | |
| | 50 | 9.441584 | 74 | 9.458846 | 79 | 0.541154 | 9.982739 | 6 | 10 | |
| 3 | o | 9.441658 | 73 | 9.458925 | 79 | 0.541075 | 9.982733 | 6 | o | 57 |
| | 10 | 9.441731 | 73 | 9.459004 | 79 | 0.540996 | 9.982727 | 6 | 50 | |
| | 20 | 9.441804 | 73 | 9.459083 | 80 | 0.540917 | 9.982721 | 6 | 40 | |
| | 30 | 9.441877 | 73 | 9.459163 | 79 | 0.540837 | 9.982715 | 6 | 30 | |
| | 40 | 9.441950 | 73 | 9.459242 | 79 | 0.540758 | 9.982709 | 6 | 20 | |
| | 50 | 9.442023 | 73 | 9.459321 | 79 | 0.540679 | 9.982702 | 6 | 10 | |
| 4 | o | 9.442096 | 74 | 9.459400 | 79 | 0.540600 | 9.982696 | 6 | o | 56 |
| | 10 | 9.442170 | 73 | 9.459479 | 79 | 0.540521 | 9.982690 | 6 | 50 | |
| | 20 | 9.442243 | 73 | 9.459558 | 80 | 0.540442 | 9.982684 | 6 | 40 | |
| | 30 | 9.442316 | 73 | 9.459638 | 79 | 0.540362 | 9.982678 | 6 | 30 | |
| | 40 | 9.442389 | 73 | 9.459717 | 79 | 0.540283 | 9.982672 | 6 | 20 | |
| | 50 | 9.442462 | 73 | 9.459796 | 79 | 0.540204 | 9.982666 | 6 | 10 | |
| 5 | o | 9.442535 | 73 | 9.459875 | 79 | 0.540125 | 9.982660 | 6 | o | 55 |
| | 10 | 9.442608 | 73 | 9.459954 | 79 | 0.540046 | 9.982654 | 6 | 50 | |
| | 20 | 9.442681 | 73 | 9.460033 | 79 | 0.539967 | 9.982648 | 6 | 40 | |
| | 30 | 9.442754 | 73 | 9.460112 | 79 | 0.539888 | 9.982642 | 6 | 30 | |
| | 40 | 9.442827 | 73 | 9.460191 | 79 | 0.539809 | 9.982636 | 6 | 20 | |
| | 50 | 9.442900 | 73 | 9.460270 | 79 | 0.539730 | 9.982630 | 6 | 10 | |
| 6 | o | 9.442973 | 74 | 9.460349 | 79 | 0.539651 | 9.982624 | 6 | o | 54 |
| | 10 | 9.443046 | 73 | 9.460428 | 79 | 0.539572 | 9.982617 | 6 | 50 | |
| | 20 | 9.443119 | 73 | 9.460507 | 79 | 0.539493 | 9.982611 | 6 | 40 | |
| | 30 | 9.443192 | 73 | 9.460586 | 79 | 0.539414 | 9.982605 | 6 | 30 | |
| | 40 | 9.443265 | 73 | 9.460665 | 79 | 0.539335 | 9.982599 | 6 | 20 | |
| | 50 | 9.443337 | 72 | 9.460744 | 79 | 0.539256 | 9.982593 | 6 | 10 | |
| 7 | o | 9.443410 | 73 | 9.460823 | 79 | 0.539177 | 9.982587 | 6 | o | 53 |
| | 10 | 9.443483 | 73 | 9.460902 | 79 | 0.539098 | 9.982581 | 6 | 50 | |
| | 20 | 9.443556 | 73 | 9.460981 | 79 | 0.539019 | 9.982575 | 6 | 40 | |
| | 30 | 9.443629 | 73 | 9.461060 | 79 | 0.538940 | 9.982569 | 6 | 30 | |
| | 40 | 9.443702 | 73 | 9.461139 | 79 | 0.538861 | 9.982563 | 6 | 20 | |
| | 50 | 9.443774 | 72 | 9.461218 | 79 | 0.538782 | 9.982557 | 6 | 10 | |
| 8 | o | 9.443847 | 73 | 9.461297 | 79 | 0.538703 | 9.982551 | 6 | o | 52 |
| | 10 | 9.443920 | 73 | 9.461376 | 79 | 0.538624 | 9.982544 | 6 | 50 | |
| | 20 | 9.443993 | 73 | 9.461454 | 78 | 0.538546 | 9.982538 | 6 | 40 | |
| | 30 | 9.444066 | 73 | 9.461533 | 79 | 0.538467 | 9.982532 | 6 | 30 | |
| | 40 | 9.444138 | 72 | 9.461612 | 79 | 0.538388 | 9.982526 | 6 | 20 | |
| | 50 | 9.444211 | 73 | 9.461691 | 79 | 0.538309 | 9.982520 | 6 | 10 | |
| 9 | o | 9.444284 | 73 | 9.461770 | 79 | 0.538230 | 9.982514 | 6 | o | 51 |
| | 10 | 9.444356 | 72 | 9.461849 | 79 | 0.538151 | 9.982508 | 6 | 50 | |
| | 20 | 9.444429 | 73 | 9.461927 | 78 | 0.538073 | 9.982502 | 6 | 40 | |
| | 30 | 9.444502 | 73 | 9.462006 | 79 | 0.537994 | 9.982496 | 6 | 30 | |
| | 40 | 9.444574 | 72 | 9.462085 | 79 | 0.537915 | 9.982490 | 6 | 20 | |
| | 50 | 9.444647 | 73 | 9.462164 | 79 | 0.537836 | 9.982484 | 6 | 10 | |
| 10 | o | 9.444720 | 73 | 9.462242 | 78 | 0.537758 | 9.982477 | 6 | o | 50 |
| | | | | | | | | | | |
| | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.444720 | 72 | 9.462242 | 79 | 0.537758 | 9.982477 | 6 | 0 | 50 |
| | 10 | 9.444792 | 73 | 9.462321 | 79 | 0.537679 | 9.982471 | 6 | 50 | |
| | 20 | 9.444865 | 73 | 9.462400 | 79 | 0.537600 | 9.982465 | 6 | 40 | |
| | 30 | 9.444938 | 73 | 9.462478 | 78 | 0.537522 | 9.982459 | 6 | 30 | |
| | 40 | 9.445010 | 72 | 9.462557 | 79 | 0.537443 | 9.982453 | 6 | 20 | |
| | 50 | 9.445083 | 73 | 9.462636 | 79 | 0.537364 | 9.982447 | 6 | 10 | |
| 11 | 0 | 9.445155 | 73 | 9.462715 | 78 | 0.537285 | 9.982441 | 6 | 0 | 49 |
| | 10 | 9.445228 | 72 | 9.462793 | 79 | 0.537207 | 9.982435 | 6 | 50 | |
| | 20 | 9.445300 | 72 | 9.462872 | 78 | 0.537128 | 9.982429 | 6 | 40 | |
| | 30 | 9.445373 | 73 | 9.462950 | 79 | 0.537050 | 9.982422 | 7 | 30 | |
| | 40 | 9.445445 | 72 | 9.463029 | 79 | 0.536971 | 9.982416 | 6 | 20 | |
| | 50 | 9.445518 | 73 | 9.463108 | 79 | 0.536892 | 9.982410 | 6 | 10 | |
| 12 | 0 | 9.445590 | 73 | 9.463186 | 78 | 0.536814 | 9.982404 | 6 | 0 | 48 |
| | 10 | 9.445663 | 72 | 9.463265 | 78 | 0.536735 | 9.982398 | 6 | 50 | |
| | 20 | 9.445735 | 72 | 9.463343 | 78 | 0.536657 | 9.982392 | 6 | 40 | |
| | 30 | 9.445808 | 73 | 9.463422 | 79 | 0.536578 | 9.982386 | 6 | 30 | |
| | 40 | 9.445880 | 72 | 9.463501 | 79 | 0.536499 | 9.982380 | 6 | 20 | |
| | 50 | 9.445953 | 73 | 9.463579 | 78 | 0.536421 | 9.982373 | 7 | 10 | |
| 13 | 0 | 9.446025 | 72 | 9.463658 | 78 | 0.536342 | 9.982367 | 6 | 0 | 47 |
| | 10 | 9.446097 | 73 | 9.463736 | 79 | 0.536264 | 9.982361 | 6 | 50 | |
| | 20 | 9.446170 | 72 | 9.463815 | 78 | 0.536185 | 9.982355 | 6 | 40 | |
| | 30 | 9.446242 | 72 | 9.463893 | 78 | 0.536107 | 9.982349 | 6 | 30 | |
| | 40 | 9.446314 | 72 | 9.463972 | 79 | 0.536028 | 9.982343 | 6 | 20 | |
| | 50 | 9.446387 | 73 | 9.464050 | 78 | 0.535950 | 9.982337 | 6 | 10 | |
| 14 | 0 | 9.446459 | 72 | 9.464128 | 79 | 0.535872 | 9.982331 | 7 | 0 | 46 |
| | 10 | 9.446531 | 73 | 9.464207 | 78 | 0.535793 | 9.982324 | 6 | 50 | |
| | 20 | 9.446604 | 72 | 9.464285 | 78 | 0.535715 | 9.982318 | 6 | 40 | |
| | 30 | 9.446676 | 72 | 9.464364 | 79 | 0.535636 | 9.982312 | 6 | 30 | |
| | 40 | 9.446748 | 72 | 9.464442 | 78 | 0.535558 | 9.982306 | 6 | 20 | |
| | 50 | 9.446820 | 73 | 9.464521 | 79 | 0.535479 | 9.982300 | 6 | 10 | |
| 15 | 0 | 9.446893 | 72 | 9.464599 | 78 | 0.535401 | 9.982294 | 6 | 0 | 45 |
| | 10 | 9.446965 | 72 | 9.464677 | 79 | 0.535323 | 9.982288 | 6 | 50 | |
| | 20 | 9.447037 | 72 | 9.464756 | 78 | 0.535244 | 9.982282 | 7 | 40 | |
| | 30 | 9.447109 | 73 | 9.464834 | 78 | 0.535166 | 9.982275 | 6 | 30 | |
| | 40 | 9.447182 | 72 | 9.464912 | 79 | 0.535088 | 9.982269 | 6 | 20 | |
| | 50 | 9.447254 | 72 | 9.464991 | 78 | 0.535009 | 9.982263 | 6 | 10 | |
| 16 | 0 | 9.447326 | 72 | 9.465069 | 78 | 0.534931 | 9.982257 | 6 | 0 | 44 |
| | 10 | 9.447398 | 72 | 9.465147 | 79 | 0.534853 | 9.982251 | 6 | 50 | |
| | 20 | 9.447470 | 72 | 9.465226 | 78 | 0.534774 | 9.982245 | 6 | 40 | |
| | 30 | 9.447542 | 72 | 9.465304 | 78 | 0.534696 | 9.982239 | 6 | 30 | |
| | 40 | 9.447614 | 72 | 9.465382 | 78 | 0.534618 | 9.982232 | 7 | 20 | |
| | 50 | 9.447687 | 73 | 9.465460 | 78 | 0.534540 | 9.982226 | 6 | 10 | |
| 17 | 0 | 9.447759 | 72 | 9.465539 | 79 | 0.534461 | 9.982220 | 6 | 0 | 43 |
| | 10 | 9.447831 | 72 | 9.465617 | 78 | 0.534383 | 9.982214 | 6 | 50 | |
| | 20 | 9.447903 | 72 | 9.465695 | 78 | 0.534305 | 9.982208 | 6 | 40 | |
| | 30 | 9.447975 | 72 | 9.465773 | 78 | 0.534227 | 9.982202 | 6 | 30 | |
| | 40 | 9.448047 | 72 | 9.465851 | 79 | 0.534149 | 9.982195 | 7 | 20 | |
| | 50 | 9.448119 | 72 | 9.465930 | 78 | 0.534072 | 9.982189 | 6 | 10 | |
| 18 | 0 | 9.448191 | 72 | 9.466008 | 78 | 0.533994 | 9.982183 | 6 | 0 | 42 |
| | 10 | 9.448263 | 72 | 9.466086 | 78 | 0.533914 | 9.982177 | 6 | 50 | |
| | 20 | 9.448335 | 72 | 9.466164 | 78 | 0.533836 | 9.982171 | 6 | 40 | |
| | 30 | 9.448407 | 72 | 9.466242 | 78 | 0.533758 | 9.982165 | 6 | 30 | |
| | 40 | 9.448479 | 72 | 9.466320 | 78 | 0.533680 | 9.982159 | 6 | 20 | |
| | 50 | 9.448551 | 72 | 9.466398 | 78 | 0.533602 | 9.982152 | 7 | 10 | |
| 19 | 0 | 9.448623 | 72 | 9.466477 | 79 | 0.533523 | 9.982146 | 6 | 0 | 41 |
| | 10 | 9.448695 | 72 | 9.466555 | 78 | 0.533445 | 9.982140 | 6 | 50 | |
| | 20 | 9.448767 | 72 | 9.466633 | 78 | 0.533367 | 9.982134 | 6 | 40 | |
| | 30 | 9.448838 | 71 | 9.466711 | 78 | 0.533289 | 9.982128 | 6 | 30 | |
| | 40 | 9.448910 | 72 | 9.466789 | 78 | 0.533211 | 9.982122 | 7 | 20 | |
| | 50 | 9.448982 | 72 | 9.466867 | 78 | 0.533133 | 9.982115 | 7 | 10 | |
| 20 | 0 | 9.449054 | 72 | 9.466945 | 78 | 0.533055 | 9.982109 | 6 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| | ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| | 20 | 0 | 9.449054 | 72 | 9.466945 | 78 | 0.533055 | 9.982109 | 6 | 0 | 40 |
| | | 10 | 9.449126 | 72 | 9.467023 | 78 | 0.532977 | 9.982103 | 6 | 50 | |
| | | 20 | 9.449198 | 71 | 9.467101 | 78 | 0.532899 | 9.982097 | 6 | 40 | |
| | | 30 | 9.449269 | 72 | 9.467179 | 78 | 0.532821 | 9.982091 | 7 | 30 | |
| 1 78 | | 40 | 9.449341 | 72 | 9.467257 | 78 | 0.532743 | 9.982084 | 7 | 20 | |
| 2 15.6 | | 50 | 9.449413 | 72 | 9.467335 | 78 | 0.532665 | 9.982078 | 6 | 10 | |
| 3 23.4 | 21 | 0 | 9.449485 | 72 | 9.467413 | 78 | 0.532587 | 9.982072 | 6 | 0 | 39 |
| 4 31.2 | | 10 | 9.449557 | 71 | 9.467491 | 78 | 0.532509 | 9.982066 | 6 | 50 | |
| 5 39.0 | | 20 | 9.449628 | 72 | 9.467569 | 78 | 0.532431 | 9.982060 | 6 | 40 | |
| 6 46.8 | | 30 | 9.449700 | 72 | 9.467647 | 77 | 0.532353 | 9.982054 | 6 | 30 | |
| 7 54.6 | | 40 | 9.449772 | 72 | 9.467724 | 78 | 0.532276 | 9.982047 | 7 | 20 | |
| 8 62.4 | | 50 | 9.449844 | 71 | 9.467802 | 78 | 0.532198 | 9.982041 | 6 | 10 | |
| 9 70.2 | 22 | 0 | 9.449915 | 72 | 9.467880 | 78 | 0.532120 | 9.982035 | 6 | 0 | 38 |
| | | 10 | 9.449987 | 72 | 9.467958 | 78 | 0.532042 | 9.982029 | 6 | 50 | |
| | | 20 | 9.450059 | 72 | 9.468036 | 78 | 0.531964 | 9.982023 | 6 | 40 | |
| | | 30 | 9.450130 | 71 | 9.468114 | 78 | 0.531886 | 9.982016 | 7 | 30 | |
| | | 40 | 9.450202 | 72 | 9.468192 | 77 | 0.531808 | 9.982010 | 6 | 20 | |
| | | 50 | 9.450274 | 71 | 9.468269 | 78 | 0.531731 | 9.982004 | 6 | 10 | |
| 1 77 | 23 | 0 | 9.450345 | 72 | 9.468347 | 78 | 0.531653 | 9.981998 | 6 | 0 | 37 |
| 2 15.4 | | 10 | 9.450417 | 72 | 9.468425 | 78 | 0.531575 | 9.981992 | 6 | 50 | |
| 3 23.1 | | 20 | 9.450488 | 72 | 9.468503 | 78 | 0.531497 | 9.981986 | 6 | 40 | |
| 4 30.8 | | 30 | 9.450560 | 72 | 9.468581 | 77 | 0.531419 | 9.981979 | 7 | 30 | |
| 5 38.5 | | 40 | 9.450632 | 72 | 9.468658 | 78 | 0.531342 | 9.981973 | 6 | 20 | |
| 6 46.2 | | 50 | 9.450703 | 71 | 9.468736 | 78 | 0.531264 | 9.981967 | 6 | 10 | |
| 7 53.9 | 24 | 0 | 9.450775 | 72 | 9.468814 | 78 | 0.531186 | 9.981961 | 6 | 0 | 36 |
| 8 61.6 | | 10 | 9.450846 | 71 | 9.468892 | 78 | 0.531108 | 9.981955 | 6 | 50 | |
| 9 69.3 | | 20 | 9.450918 | 72 | 9.468969 | 77 | 0.531031 | 9.981948 | 7 | 40 | |
| | | 30 | 9.450989 | 71 | 9.469047 | 78 | 0.530953 | 9.981942 | 6 | 30 | |
| | | 40 | 9.451061 | 72 | 9.469125 | 78 | 0.530875 | 9.981936 | 6 | 20 | |
| | | 50 | 9.451132 | 71 | 9.469202 | 77 | 0.530798 | 9.981930 | 6 | 10 | |
| * | 25 | 0 | 9.451204 | 71 | 9.469280 | 78 | 0.530720 | 9.981924 | 7 | 0 | 35 |
| | | 10 | 9.451275 | 72 | 9.469358 | 77 | 0.530642 | 9.981917 | 6 | 50 | |
| | | 20 | 9.451347 | 72 | 9.469435 | 78 | 0.530565 | 9.981911 | 6 | 40 | |
| | | 30 | 9.451418 | 71 | 9.469513 | 78 | 0.530487 | 9.981905 | 6 | 30 | |
| | | 40 | 9.451489 | 72 | 9.469591 | 78 | 0.530409 | 9.981899 | 6 | 20 | |
| | | 50 | 9.451561 | 72 | 9.469668 | 77 | 0.530332 | 9.981893 | 6 | 10 | |
| 1 72 | 26 | 0 | 9.451632 | 71 | 9.469746 | 78 | 0.530254 | 9.981886 | 7 | 0 | 34 |
| 2 14.4 | | 10 | 9.451704 | 72 | 9.469823 | 77 | 0.530177 | 9.981880 | 6 | 50 | |
| 3 21.6 | | 20 | 9.451775 | 71 | 9.469901 | 78 | 0.530099 | 9.981874 | 6 | 40 | |
| 4 28.8 | | 30 | 9.451846 | 72 | 9.469979 | 78 | 0.530021 | 9.981868 | 6 | 30 | |
| 5 36.0 | | 40 | 9.451918 | 72 | 9.470056 | 77 | 0.529944 | 9.981861 | 7 | 20 | |
| 6 43.2 | | 50 | 9.451989 | 71 | 9.470134 | 78 | 0.529866 | 9.981855 | 6 | 10 | |
| 7 50.4 | 27 | 0 | 9.452060 | 71 | 9.470211 | 78 | 0.529789 | 9.981849 | 6 | 0 | 33 |
| 8 57.6 | | 10 | 9.452132 | 72 | 9.470289 | 77 | 0.529711 | 9.981843 | 6 | 50 | |
| 9 64.8 | | 20 | 9.452203 | 71 | 9.470366 | 77 | 0.529634 | 9.981837 | 6 | 40 | |
| | | 30 | 9.452274 | 72 | 9.470444 | 78 | 0.529556 | 9.981830 | 7 | 30 | |
| | | 40 | 9.452345 | 71 | 9.470521 | 78 | 0.529479 | 9.981824 | 6 | 20 | |
| | | 50 | 9.452417 | 72 | 9.470599 | 78 | 0.529401 | 9.981818 | 6 | 10 | |
| | | | | | | | | | | | |
| | 28 | 0 | 9.452488 | 71 | 9.470676 | 77 | 0.529324 | 9.981812 | 6 | 0 | 32 |
| 1 71 | | 10 | 9.452559 | 72 | 9.470754 | 78 | 0.529246 | 9.981806 | 6 | 50 | |
| 2 14.2 | | 20 | 9.452630 | 71 | 9.470831 | 77 | 0.529169 | 9.981799 | 7 | 40 | |
| 3 21.3 | | 30 | 9.452702 | 72 | 9.470909 | 78 | 0.529091 | 9.981793 | 6 | 30 | |
| 4 28.4 | | 40 | 9.452773 | 71 | 9.470986 | 77 | 0.529014 | 9.981787 | 6 | 20 | |
| 5 35.5 | | 50 | 9.452844 | 72 | 9.471063 | 77 | 0.528937 | 9.981781 | 6 | 10 | |
| 6 42.6 | | | | | | | | | | | |
| 7 49.7 | 29 | 0 | 9.452915 | 71 | 9.471141 | 77 | 0.528859 | 9.981774 | 7 | 0 | 31 |
| 8 56.8 | | 10 | 9.452986 | 72 | 9.471218 | 77 | 0.528782 | 9.981768 | 6 | 50 | |
| 9 63.9 | | 20 | 9.453057 | 71 | 9.471295 | 78 | 0.528705 | 9.981762 | 6 | 40 | |
| | | 30 | 9.453129 | 72 | 9.471373 | 78 | 0.528627 | 9.981756 | 6 | 30 | |
| | | 40 | 9.453200 | 71 | 9.471450 | 77 | 0.528550 | 9.981749 | 7 | 20 | |
| | | 50 | 9.453271 | 72 | 9.471528 | 78 | 0.528472 | 9.981743 | 6 | 10 | |
| | | | | | | | | | | | |
| | 30 | 0 | 9.453342 | 71 | 9.471605 | 77 | 0.528395 | 9.981737 | 6 | 0 | 30 |
| | | | | | | | | | | | |
| | ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.453342 | 71 | 9.471605 | 77 | 0.528395 | 9.981737 | 6 | 0 | 30 |
| | 10 | 9.453413 | 71 | 9.471682 | 77 | 0.528318 | 9.981731 | 7 | 50 | |
| | 20 | 9.453484 | 71 | 9.471759 | 78 | 0.528241 | 9.981724 | 7 | 40 | |
| | 30 | 9.453555 | 71 | 9.471837 | 77 | 0.528163 | 9.981718 | 6 | 30 | |
| | 40 | 9.453626 | 71 | 9.471914 | 77 | 0.528086 | 9.981712 | 6 | 20 | |
| | 50 | 9.453697 | 71 | 9.471991 | 78 | 0.528009 | 9.981706 | 6 | 10 | |
| 31 | 0 | 9.453768 | 71 | 9.472069 | 77 | 0.527931 | 9.981700 | 6 | 0 | 29 |
| | 10 | 9.453839 | 71 | 9.472146 | 77 | 0.527854 | 9.981693 | 7 | 50 | |
| | 20 | 9.453910 | 71 | 9.472223 | 77 | 0.527777 | 9.981687 | 7 | 40 | |
| | 30 | 9.453981 | 71 | 9.472300 | 77 | 0.527700 | 9.981681 | 6 | 30 | |
| | 40 | 9.454052 | 71 | 9.472377 | 78 | 0.527623 | 9.981675 | 6 | 20 | |
| | 50 | 9.454123 | 71 | 9.472455 | 77 | 0.527545 | 9.981668 | 7 | 10 | |
| 32 | 0 | 9.454194 | 71 | 9.472532 | 77 | 0.527468 | 9.981662 | 6 | 0 | 28 |
| | 10 | 9.454265 | 71 | 9.472609 | 77 | 0.527391 | 9.981656 | 6 | 50 | |
| | 20 | 9.454336 | 71 | 9.472686 | 77 | 0.527314 | 9.981650 | 6 | 40 | |
| | 30 | 9.454407 | 70 | 9.472763 | 77 | 0.527237 | 9.981643 | 7 | 30 | |
| | 40 | 9.454477 | 71 | 9.472840 | 78 | 0.527160 | 9.981637 | 6 | 20 | |
| | 50 | 9.454548 | 71 | 9.472918 | 77 | 0.527082 | 9.981631 | 6 | 10 | |
| 33 | 0 | 9.454619 | 71 | 9.472995 | 77 | 0.527005 | 9.981625 | 6 | 0 | 27 |
| | 10 | 9.454690 | 71 | 9.473072 | 77 | 0.526928 | 9.981618 | 7 | 50 | |
| | 20 | 9.454761 | 71 | 9.473149 | 77 | 0.526851 | 9.981612 | 6 | 40 | |
| | 30 | 9.454832 | 71 | 9.473226 | 77 | 0.526774 | 9.981606 | 6 | 30 | |
| | 40 | 9.454903 | 70 | 9.473303 | 77 | 0.526697 | 9.981599 | 7 | 20 | |
| | 50 | 9.454973 | 71 | 9.473380 | 77 | 0.526620 | 9.981593 | 6 | 10 | |
| 34 | 0 | 9.455044 | 71 | 9.473457 | 77 | 0.526543 | 9.981587 | 6 | 0 | 26 |
| | 10 | 9.455115 | 71 | 9.473534 | 77 | 0.526466 | 9.981581 | 6 | 50 | |
| | 20 | 9.455186 | 71 | 9.473611 | 77 | 0.526389 | 9.981574 | 7 | 40 | |
| | 30 | 9.455256 | 70 | 9.473688 | 77 | 0.526312 | 9.981568 | 6 | 30 | |
| | 40 | 9.455327 | 71 | 9.473765 | 77 | 0.526235 | 9.981562 | 6 | 20 | |
| | 50 | 9.455398 | 71 | 9.473842 | 77 | 0.526158 | 9.981556 | 6 | 10 | |
| 35 | 0 | 9.455469 | 70 | 9.473919 | 77 | 0.526081 | 9.981549 | 7 | 0 | 25 |
| | 10 | 9.455539 | 71 | 9.473996 | 77 | 0.526004 | 9.981543 | 6 | 50 | |
| | 20 | 9.455610 | 71 | 9.474073 | 77 | 0.525927 | 9.981537 | 6 | 40 | |
| | 30 | 9.455681 | 71 | 9.474150 | 77 | 0.525850 | 9.981531 | 6 | 30 | |
| | 40 | 9.455751 | 70 | 9.474227 | 77 | 0.525773 | 9.981524 | 7 | 20 | |
| | 50 | 9.455822 | 71 | 9.474304 | 77 | 0.525696 | 9.981518 | 6 | 10 | |
| 36 | 0 | 9.455893 | 71 | 9.474381 | 77 | 0.525619 | 9.981512 | 6 | 0 | 24 |
| | 10 | 9.455963 | 70 | 9.474458 | 77 | 0.525542 | 9.981505 | 7 | 50 | |
| | 20 | 9.456034 | 70 | 9.474535 | 77 | 0.525465 | 9.981499 | 6 | 40 | |
| | 30 | 9.456104 | 71 | 9.474612 | 77 | 0.525388 | 9.981493 | 6 | 30 | |
| | 40 | 9.456175 | 71 | 9.474688 | 76 | 0.525312 | 9.981487 | 6 | 20 | |
| | 50 | 9.456246 | 70 | 9.474765 | 77 | 0.525235 | 9.981480 | 7 | 10 | |
| 37 | 0 | 9.456316 | 71 | 9.474842 | 77 | 0.525158 | 9.981474 | 6 | 0 | 23 |
| | 10 | 9.456387 | 71 | 9.474919 | 77 | 0.525081 | 9.981468 | 6 | 50 | |
| | 20 | 9.456457 | 71 | 9.474996 | 77 | 0.525004 | 9.981461 | 7 | 40 | |
| | 30 | 9.456528 | 70 | 9.475073 | 77 | 0.524927 | 9.981455 | 6 | 30 | |
| | 40 | 9.456598 | 71 | 9.475149 | 76 | 0.524851 | 9.981449 | 6 | 20 | |
| | 50 | 9.456669 | 70 | 9.475226 | 77 | 0.524774 | 9.981443 | 6 | 10 | |
| 38 | 0 | 9.456739 | 71 | 9.475303 | 77 | 0.524697 | 9.981436 | 7 | 0 | 22 |
| | 10 | 9.456810 | 71 | 9.475380 | 77 | 0.524620 | 9.981430 | 6 | 50 | |
| | 20 | 9.456880 | 70 | 9.475456 | 76 | 0.524544 | 9.981424 | 6 | 40 | |
| | 30 | 9.456951 | 71 | 9.475533 | 77 | 0.524467 | 9.981417 | 7 | 30 | |
| | 40 | 9.457021 | 70 | 9.475610 | 77 | 0.524390 | 9.981411 | 6 | 20 | |
| | 50 | 9.457091 | 71 | 9.475687 | 77 | 0.524313 | 9.981405 | 6 | 10 | |
| 39 | 0 | 9.457162 | 71 | 9.475763 | 76 | 0.524237 | 9.981399 | 6 | 0 | 21 |
| | 10 | 9.457232 | 70 | 9.475840 | 77 | 0.524160 | 9.981392 | 7 | 50 | |
| | 20 | 9.457303 | 71 | 9.475917 | 77 | 0.524083 | 9.981386 | 6 | 40 | |
| | 30 | 9.457373 | 70 | 9.475993 | 76 | 0.524007 | 9.981380 | 6 | 30 | |
| | 40 | 9.457443 | 71 | 9.476070 | 77 | 0.523930 | 9.981373 | 7 | 20 | |
| | 50 | 9.457514 | 71 | 9.476147 | 77 | 0.523853 | 9.981367 | 6 | 10 | |
| 40 | 0 | 9.457584 | 70 | 9.476223 | 76 | 0.523777 | 9.981361 | 6 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9.457584 | 70 | 9.476223 | 77 | 0.523777 | 9.981361 | 7 | 0 | 20 |
| | 10 | 9.457654 | 71 | 9.476300 | 77 | 0.523700 | 9.981354 | 6 | 50 | |
| * | 20 | 9.457725 | 70 | 9.476377 | 76 | 0.523623 | 9.981348 | 6 | 40 | |
| | 30 | 9.457795 | 70 | 9.476453 | 77 | 0.523547 | 9.981342 | 6 | 30 | |
| | 40 | 9.457865 | 70 | 9.476530 | 76 | 0.523470 | 9.981336 | 6 | 20 | |
| | 50 | 9.457936 | 71 | 9.476606 | 76 | 0.523394 | 9.981329 | 7 | 10 | |
| 41 | 0 | 9.458006 | 70 | 9.476683 | 76 | 0.523317 | 9.981323 | 6 | 0 | 19 |
| | 10 | 9.458076 | 70 | 9.476759 | 77 | 0.523241 | 9.981317 | 6 | 50 | |
| | 20 | 9.458146 | 71 | 9.476836 | 77 | 0.523164 | 9.981310 | 7 | 40 | |
| | 30 | 9.458217 | 70 | 9.476913 | 76 | 0.523087 | 9.981304 | 6 | 30 | |
| | 40 | 9.458287 | 70 | 9.476989 | 76 | 0.523011 | 9.981298 | 6 | 20 | |
| | 50 | 9.458357 | 70 | 9.477066 | 77 | 0.522934 | 9.981291 | 7 | 10 | |
| 42 | 0 | 9.458427 | 70 | 9.477142 | 77 | 0.522858 | 9.981285 | 6 | 0 | 18 |
| | 10 | 9.458497 | 70 | 9.477219 | 76 | 0.522781 | 9.981279 | 7 | 50 | |
| | 20 | 9.458567 | 71 | 9.477295 | 77 | 0.522705 | 9.981272 | 7 | 40 | |
| | 30 | 9.458638 | 70 | 9.477372 | 76 | 0.522628 | 9.981266 | 6 | 30 | |
| | 40 | 9.458708 | 70 | 9.477448 | 76 | 0.522552 | 9.981260 | 6 | 20 | |
| | 50 | 9.458778 | 70 | 9.477524 | 76 | 0.522476 | 9.981253 | 7 | 10 | |
| 43 | 0 | 9.458848 | 70 | 9.477601 | 77 | 0.522399 | 9.981247 | 6 | 0 | 17 |
| | 10 | 9.458918 | 70 | 9.477677 | 76 | 0.522323 | 9.981241 | 6 | 50 | |
| | 20 | 9.458988 | 70 | 9.477754 | 77 | 0.522246 | 9.981234 | 7 | 40 | |
| | 30 | 9.459058 | 70 | 9.477830 | 76 | 0.522170 | 9.981228 | 6 | 30 | |
| | 40 | 9.459128 | 70 | 9.477906 | 76 | 0.522094 | 9.981222 | 6 | 20 | |
| | 50 | 9.459198 | 70 | 9.477983 | 77 | 0.522017 | 9.981215 | 7 | 10 | |
| 44 | 0 | 9.459268 | 70 | 9.478059 | 76 | 0.521941 | 9.981209 | 6 | 0 | 16 |
| | 10 | 9.459338 | 70 | 9.478136 | 77 | 0.521864 | 9.981203 | 6 | 50 | |
| | 20 | 9.459408 | 70 | 9.478212 | 76 | 0.521788 | 9.981196 | 7 | 40 | |
| | 30 | 9.459478 | 70 | 9.478288 | 76 | 0.521712 | 9.981190 | 6 | 30 | |
| | 40 | 9.459548 | 70 | 9.478365 | 77 | 0.521635 | 9.981184 | 6 | 20 | |
| | 50 | 9.459618 | 70 | 9.478441 | 76 | 0.521559 | 9.981177 | 7 | 10 | |
| * | 0 | 9.459688 | 70 | 9.478517 | 76 | 0.521483 | 9.981171 | 6 | 0 | 15 |
| | 10 | 9.459758 | 70 | 9.478593 | 77 | 0.521407 | 9.981165 | 7 | 50 | |
| | 20 | 9.459828 | 70 | 9.478670 | 76 | 0.521330 | 9.981158 | 6 | 40 | |
| | 30 | 9.459898 | 70 | 9.478746 | 76 | 0.521254 | 9.981152 | 6 | 30 | |
| | 40 | 9.459968 | 70 | 9.478822 | 77 | 0.521178 | 9.981146 | 6 | 20 | |
| | 50 | 9.460038 | 70 | 9.478899 | 77 | 0.521101 | 9.981139 | 7 | 10 | |
| 46 | 0 | 9.460108 | 70 | 9.478975 | 76 | 0.521025 | 9.981133 | 6 | 0 | 14 |
| | 10 | 9.460178 | 70 | 9.479051 | 76 | 0.520949 | 9.981127 | 7 | 50 | |
| | 20 | 9.460248 | 69 | 9.479127 | 76 | 0.520873 | 9.981120 | 6 | 40 | |
| | 30 | 9.460317 | 70 | 9.479203 | 76 | 0.520797 | 9.981114 | 6 | 30 | |
| | 40 | 9.460387 | 70 | 9.479280 | 77 | 0.520720 | 9.981108 | 6 | 20 | |
| | 50 | 9.460457 | 70 | 9.479356 | 76 | 0.520644 | 9.981101 | 7 | 10 | |
| 47 | 0 | 9.460527 | 70 | 9.479432 | 76 | 0.520568 | 9.981095 | 6 | 0 | 13 |
| | 10 | 9.460597 | 70 | 9.479508 | 76 | 0.520492 | 9.981089 | 7 | 50 | |
| | 20 | 9.460667 | 69 | 9.479584 | 76 | 0.520416 | 9.981082 | 6 | 40 | |
| | 30 | 9.460736 | 70 | 9.479660 | 77 | 0.520340 | 9.981076 | 6 | 30 | |
| | 40 | 9.460806 | 70 | 9.479737 | 76 | 0.520263 | 9.981070 | 6 | 20 | |
| | 50 | 9.460876 | 70 | 9.479813 | 76 | 0.520187 | 9.981063 | 7 | 10 | |
| 48 | 0 | 9.460946 | 69 | 9.479889 | 76 | 0.520111 | 9.981057 | 6 | 0 | 12 |
| | 10 | 9.461015 | 70 | 9.479965 | 76 | 0.520035 | 9.981051 | 7 | 50 | |
| | 20 | 9.461085 | 70 | 9.480041 | 76 | 0.519959 | 9.981044 | 6 | 40 | |
| | 30 | 9.461155 | 69 | 9.480117 | 76 | 0.519883 | 9.981038 | 6 | 30 | |
| | 40 | 9.461224 | 70 | 9.480193 | 76 | 0.519807 | 9.981031 | 7 | 20 | |
| | 50 | 9.461294 | 70 | 9.480269 | 76 | 0.519731 | 9.981025 | 6 | 10 | |
| 49 | 0 | 9.461364 | 69 | 9.480345 | 76 | 0.519655 | 9.981019 | 7 | 0 | 11 |
| | 10 | 9.461433 | 70 | 9.480421 | 76 | 0.519579 | 9.981012 | 6 | 50 | |
| | 20 | 9.461503 | 70 | 9.480497 | 76 | 0.519503 | 9.981006 | 6 | 40 | |
| | 30 | 9.461573 | 69 | 9.480573 | 76 | 0.519427 | 9.981000 | 6 | 30 | |
| | 40 | 9.461642 | 70 | 9.480649 | 76 | 0.519351 | 9.980993 | 7 | 20 | |
| | 50 | 9.461712 | 70 | 9.480725 | 76 | 0.519275 | 9.980987 | 6 | 10 | |
| 50 | 0 | 9.461782 | 70 | 9.480801 | 76 | 0.519200 | 9.980981 | 7 | 0 | 10 |
| | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.461782 | 69 | 9.480801 | 76 | 0.519199 | 9.980981 | 7 | 0 | 10 |
| | 10 | 9.461851 | 70 | 9.480877 | 76 | 0.519123 | 9.980974 | 6 | 50 | |
| | 20 | 9.461921 | 70 | 9.480953 | 76 | 0.519047 | 9.980968 | 6 | 40 | |
| | 30 | 9.461990 | 69 | 9.481029 | 76 | 0.518971 | 9.980961 | 7 | 30 | |
| | 40 | 9.462060 | 70 | 9.481105 | 76 | 0.518895 | 9.980955 | 6 | 20 | |
| | 50 | 9.462129 | 69 | 9.481181 | 76 | 0.518819 | 9.980949 | 6 | 10 | |
| 51 | 0 | 9.462199 | 70 | 9.481257 | 76 | 0.518743 | 9.980942 | 7 | 0 | 9 |
| | 10 | 9.462268 | 69 | 9.481333 | 75 | 0.518667 | 9.980936 | 6 | 50 | |
| | 20 | 9.462338 | 70 | 9.481408 | 75 | 0.518592 | 9.980930 | 6 | 40 | |
| | 30 | 9.462407 | 69 | 9.481484 | 76 | 0.518516 | 9.980923 | 7 | 30 | |
| | 40 | 9.462477 | 70 | 9.481560 | 76 | 0.518440 | 9.980917 | 6 | 20 | |
| | 50 | 9.462546 | 69 | 9.481636 | 76 | 0.518364 | 9.980910 | 7 | 10 | |
| 52 | 0 | 9.462616 | 70 | 9.481712 | 76 | 0.518288 | 9.980904 | 6 | 0 | 8 |
| | 10 | 9.462685 | 69 | 9.481788 | 75 | 0.518212 | 9.980898 | 7 | 50 | |
| | 20 | 9.462755 | 70 | 9.481863 | 75 | 0.518137 | 9.980891 | 6 | 40 | |
| | 30 | 9.462824 | 69 | 9.481939 | 76 | 0.518061 | 9.980885 | 7 | 30 | |
| | 40 | 9.462894 | 70 | 9.482015 | 76 | 0.517985 | 9.980878 | 6 | 20 | |
| | 50 | 9.462963 | 69 | 9.482091 | 76 | 0.517909 | 9.980872 | 6 | 10 | |
| 53 | 0 | 9.463032 | 70 | 9.482167 | 75 | 0.517833 | 9.980866 | 7 | 0 | 7 |
| | 10 | 9.463102 | 69 | 9.482242 | 76 | 0.517758 | 9.980859 | 6 | 50 | |
| | 20 | 9.463171 | 70 | 9.482318 | 76 | 0.517682 | 9.980853 | 6 | 40 | |
| | 30 | 9.463240 | 69 | 9.482394 | 76 | 0.517606 | 9.980847 | 7 | 30 | |
| | 40 | 9.463310 | 70 | 9.482470 | 76 | 0.517530 | 9.980840 | 6 | 20 | |
| | 50 | 9.463379 | 69 | 9.482545 | 75 | 0.517455 | 9.980834 | 7 | 10 | |
| 54 | 0 | 9.463448 | 70 | 9.482621 | 76 | 0.517379 | 9.980827 | 6 | 0 | 6 |
| | 10 | 9.463518 | 69 | 9.482697 | 75 | 0.517303 | 9.980821 | 7 | 50 | |
| | 20 | 9.463587 | 70 | 9.482772 | 76 | 0.517228 | 9.980815 | 6 | 40 | |
| | 30 | 9.463656 | 69 | 9.482848 | 76 | 0.517152 | 9.980808 | 7 | 30 | |
| | 40 | 9.463725 | 70 | 9.482924 | 76 | 0.517076 | 9.980802 | 6 | 20 | |
| | 50 | 9.463795 | 69 | 9.482999 | 75 | 0.517001 | 9.980795 | 7 | 10 | |
| 55 | 0 | 9.463864 | 70 | 9.483075 | 76 | 0.516925 | 9.980789 | 6 | 0 | 5 |
| | 10 | 9.463933 | 69 | 9.483151 | 75 | 0.516849 | 9.980783 | 7 | 50 | |
| | 20 | 9.464002 | 70 | 9.483226 | 76 | 0.516774 | 9.980776 | 6 | 40 | |
| | 30 | 9.464072 | 69 | 9.483302 | 76 | 0.516698 | 9.980770 | 7 | 30 | |
| | 40 | 9.464141 | 70 | 9.483377 | 75 | 0.516623 | 9.980763 | 6 | 20 | |
| | 50 | 9.464210 | 69 | 9.483453 | 76 | 0.516547 | 9.980757 | 7 | 10 | |
| 56 | 0 | 9.464279 | 70 | 9.483529 | 76 | 0.516471 | 9.980750 | 6 | 0 | 4 |
| | 10 | 9.464348 | 69 | 9.483604 | 75 | 0.516395 | 9.980744 | 7 | 50 | |
| | 20 | 9.464417 | 70 | 9.483680 | 76 | 0.516320 | 9.980738 | 6 | 40 | |
| | 30 | 9.464486 | 69 | 9.483755 | 75 | 0.516245 | 9.980731 | 7 | 30 | |
| | 40 | 9.464556 | 70 | 9.483831 | 76 | 0.516169 | 9.980725 | 6 | 20 | |
| | 50 | 9.464625 | 69 | 9.483906 | 75 | 0.516094 | 9.980718 | 7 | 10 | |
| 57 | 0 | 9.464694 | 70 | 9.483982 | 76 | 0.516018 | 9.980712 | 6 | 0 | 3 |
| | 10 | 9.464763 | 69 | 9.484057 | 75 | 0.515943 | 9.980706 | 7 | 50 | |
| | 20 | 9.464832 | 70 | 9.484133 | 76 | 0.515867 | 9.980699 | 6 | 40 | |
| | 30 | 9.464901 | 69 | 9.484208 | 75 | 0.515792 | 9.980693 | 7 | 30 | |
| | 40 | 9.464970 | 70 | 9.484284 | 76 | 0.515716 | 9.980686 | 6 | 20 | |
| | 50 | 9.465039 | 69 | 9.484359 | 75 | 0.515641 | 9.980680 | 7 | 10 | |
| 58 | 0 | 9.465108 | 70 | 9.484435 | 76 | 0.515565 | 9.980673 | 6 | 0 | 2 |
| | 10 | 9.465177 | 69 | 9.484510 | 75 | 0.515490 | 9.980667 | 7 | 50 | |
| | 20 | 9.465246 | 70 | 9.484585 | 76 | 0.515415 | 9.980661 | 6 | 40 | |
| | 30 | 9.465315 | 69 | 9.484661 | 75 | 0.515339 | 9.980654 | 7 | 30 | |
| | 40 | 9.465384 | 70 | 9.484736 | 76 | 0.515264 | 9.980648 | 6 | 20 | |
| | 50 | 9.465453 | 69 | 9.484812 | 75 | 0.515188 | 9.980641 | 7 | 10 | |
| 59 | 0 | 9.465522 | 70 | 9.484887 | 76 | 0.515113 | 9.980635 | 6 | 0 | 1 |
| | 10 | 9.465591 | 69 | 9.484962 | 75 | 0.515038 | 9.980628 | 7 | 50 | |
| | 20 | 9.465660 | 70 | 9.485038 | 76 | 0.514962 | 9.980622 | 6 | 40 | |
| | 30 | 9.465729 | 69 | 9.485113 | 75 | 0.514887 | 9.980616 | 7 | 30 | |
| | 40 | 9.465798 | 70 | 9.485188 | 76 | 0.514812 | 9.980609 | 6 | 20 | |
| | 50 | 9.465866 | 69 | 9.485264 | 75 | 0.514736 | 9.980603 | 7 | 10 | |
| 60 | 0 | 9.465935 | 70 | 9.485339 | 76 | 0.514661 | 9.980596 | 6 | 0 | 0 |

76
1 7.6
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| | ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|-------|----------|----------|----|---|----|
| | 0 | 0 | 9.465935 | 69 | 9.485339 | 75 | 0.514661 | 9.980596 | 6 | 0 | 60 |
| | | 10 | 9.466004 | 69 | 9.485414 | 76 | 0.514586 | 9.980590 | 7 | 6 | 50 |
| | | 20 | 9.466073 | 69 | 9.485490 | 75 | 0.514510 | 9.980583 | 7 | 6 | 40 |
| | | 30 | 9.466142 | 69 | 9.485565 | 75 | 0.514435 | 9.980577 | 6 | 6 | 30 |
| | | 40 | 9.466211 | 69 | 9.485640 | 75 | 0.514360 | 9.980571 | 7 | 6 | 20 |
| | | 50 | 9.466280 | 69 | 9.485715 | 75 | 0.514285 | 9.980564 | 7 | 6 | 10 |
| 76 | 1 | 0 | 9.466348 | 69 | 9.485791 | 76 | 0.514209 | 9.980558 | 7 | 6 | 0 |
| 1 7.6 | | 10 | 9.466417 | 69 | 9.485866 | 75 | 0.514134 | 9.980551 | 7 | 6 | 50 |
| 2 15.2 | | 20 | 9.466486 | 69 | 9.485941 | 75 | 0.514059 | 9.980545 | 7 | 6 | 40 |
| 3 22.8 | | 30 | 9.466555 | 69 | 9.486016 | 76 | 0.513984 | 9.980538 | 7 | 6 | 30 |
| 4 30.4 | | 40 | 9.466623 | 68 | 9.486092 | 75 | 0.513908 | 9.980532 | 7 | 6 | 20 |
| 5 38.0 | | 50 | 9.466692 | 69 | 9.486167 | 75 | 0.513833 | 9.980525 | 7 | 6 | 10 |
| 6 45.6 | 2 | 0 | 9.466761 | 69 | 9.486242 | 75 | 0.513758 | 9.980519 | 6 | 6 | 0 |
| 7 53.2 | | 10 | 9.466830 | 68 | 9.486317 | 75 | 0.513683 | 9.980513 | 7 | 6 | 50 |
| 8 60.8 | | 20 | 9.466898 | 68 | 9.486392 | 75 | 0.513608 | 9.980506 | 7 | 6 | 40 |
| 9 68.4 | | 30 | 9.466967 | 69 | 9.486467 | 76 | 0.513533 | 9.980500 | 7 | 6 | 30 |
| | | 40 | 9.467036 | 69 | 9.486543 | 75 | 0.513457 | 9.980493 | 7 | 6 | 20 |
| | | 50 | 9.467104 | 68 | 9.486618 | 75 | 0.513382 | 9.980487 | 7 | 6 | 10 |
| 75 | 3 | 0 | 9.467173 | 69 | 9.486693 | 75 | 0.513307 | 9.980480 | 7 | 6 | 0 |
| 1 7.5 | | 10 | 9.467242 | 68 | 9.486768 | 75 | 0.513232 | 9.980474 | 7 | 6 | 50 |
| 2 15.0 | | 20 | 9.467310 | 69 | 9.486843 | 75 | 0.513157 | 9.980467 | 7 | 6 | 40 |
| 3 22.5 | | 30 | 9.467379 | 69 | 9.486918 | 75 | 0.513082 | 9.980461 | 7 | 6 | 30 |
| 4 30.0 | | 40 | 9.467448 | 68 | 9.486993 | 75 | 0.513007 | 9.980454 | 7 | 6 | 20 |
| 5 37.5 | | 50 | 9.467516 | 69 | 9.487068 | 75 | 0.512932 | 9.980448 | 6 | 6 | 10 |
| 6 45.0 | 4 | 0 | 9.467585 | 68 | 9.487143 | 75 | 0.512857 | 9.980442 | 7 | 6 | 0 |
| 7 52.5 | | 10 | 9.467653 | 69 | 9.487218 | 75 | 0.512782 | 9.980435 | 7 | 6 | 50 |
| 8 60.0 | | 20 | 9.467722 | 68 | 9.487293 | 75 | 0.512707 | 9.980429 | 7 | 6 | 40 |
| 9 67.5 | | 30 | 9.467790 | 68 | 9.487368 | 75 | 0.512632 | 9.980422 | 7 | 6 | 30 |
| | | 40 | 9.467859 | 69 | 9.487443 | 75 | 0.512557 | 9.980416 | 7 | 6 | 20 |
| | | 50 | 9.467928 | 68 | 9.487518 | 75 | 0.512482 | 9.980409 | 7 | 6 | 10 |
| * | 5 | 0 | 9.467996 | 69 | 9.487593 | 75 | 0.512407 | 9.980403 | 7 | 6 | 0 |
| | | 10 | 9.468065 | 68 | 9.487668 | 75 | 0.512332 | 9.980396 | 7 | 6 | 50 |
| | | 20 | 9.468133 | 69 | 9.487743 | 75 | 0.512257 | 9.980390 | 7 | 6 | 40 |
| | | 30 | 9.468202 | 68 | 9.487818 | 75 | 0.512182 | 9.980383 | 7 | 6 | 30 |
| | | 40 | 9.468270 | 68 | 9.487893 | 75 | 0.512107 | 9.980377 | 7 | 6 | 20 |
| | | 50 | 9.468338 | 69 | 9.487968 | 75 | 0.512032 | 9.980370 | 7 | 6 | 10 |
| 69 | 6 | 0 | 9.468407 | 68 | 9.488043 | 75 | 0.511957 | 9.980364 | 7 | 6 | 0 |
| 1 6.9 | | 10 | 9.468475 | 69 | 9.488118 | 75 | 0.511882 | 9.980357 | 7 | 6 | 50 |
| 2 13.8 | | 20 | 9.468544 | 68 | 9.488193 | 75 | 0.511807 | 9.980351 | 7 | 6 | 40 |
| 3 20.7 | | 30 | 9.468612 | 68 | 9.488268 | 75 | 0.511732 | 9.980344 | 7 | 6 | 30 |
| 4 27.6 | | 40 | 9.468681 | 68 | 9.488343 | 75 | 0.511657 | 9.980338 | 7 | 6 | 20 |
| 5 34.5 | | 50 | 9.468749 | 68 | 9.488418 | 75 | 0.511582 | 9.980331 | 7 | 6 | 10 |
| 6 41.4 | 7 | 0 | 9.468817 | 69 | 9.488492 | 74 | 0.511508 | 9.980325 | 7 | 6 | 0 |
| 7 48.3 | | 10 | 9.468886 | 68 | 9.488567 | 75 | 0.511433 | 9.980318 | 7 | 6 | 50 |
| 8 55.2 | | 20 | 9.468954 | 68 | 9.488642 | 75 | 0.511358 | 9.980312 | 7 | 6 | 40 |
| 9 62.1 | | 30 | 9.469022 | 69 | 9.488717 | 75 | 0.511283 | 9.980306 | 7 | 6 | 30 |
| | | 40 | 9.469091 | 68 | 9.488792 | 75 | 0.511208 | 9.980299 | 7 | 6 | 20 |
| | | 50 | 9.469159 | 68 | 9.488866 | 74 | 0.511133 | 9.980293 | 7 | 6 | 10 |
| 68 | 8 | 0 | 9.469227 | 69 | 9.488941 | 75 | 0.511058 | 9.980287 | 7 | 6 | 0 |
| 1 6.8 | | 10 | 9.469296 | 68 | 9.489016 | 75 | 0.510984 | 9.980280 | 7 | 6 | 50 |
| 2 13.6 | | 20 | 9.469364 | 68 | 9.489091 | 75 | 0.510909 | 9.980273 | 7 | 6 | 40 |
| 3 20.4 | | 30 | 9.469432 | 68 | 9.489166 | 75 | 0.510834 | 9.980267 | 7 | 6 | 30 |
| 4 27.2 | | 40 | 9.469500 | 69 | 9.489240 | 74 | 0.510759 | 9.980260 | 7 | 6 | 20 |
| 5 34.0 | | 50 | 9.469569 | 68 | 9.489315 | 75 | 0.510685 | 9.980254 | 7 | 6 | 10 |
| 6 40.8 | 9 | 0 | 9.469637 | 68 | 9.489390 | 75 | 0.510610 | 9.980247 | 7 | 6 | 0 |
| 7 47.6 | | 10 | 9.469705 | 68 | 9.489465 | 75 | 0.510535 | 9.980241 | 7 | 6 | 50 |
| 8 54.4 | | 20 | 9.469773 | 68 | 9.489539 | 74 | 0.510461 | 9.980234 | 7 | 6 | 40 |
| 9 61.2 | | 30 | 9.469842 | 69 | 9.489614 | 75 | 0.510386 | 9.980228 | 7 | 6 | 30 |
| | | 40 | 9.469910 | 68 | 9.489689 | 75 | 0.510311 | 9.980221 | 7 | 6 | 20 |
| | | 50 | 9.469978 | 68 | 9.489763 | 74 | 0.510237 | 9.980215 | 7 | 6 | 10 |
| | 10 | 0 | 9.470046 | 68 | 9.489838 | 75 | 0.510162 | 9.980208 | 7 | 6 | 0 |
| | | | | | | | | | | | |
| | ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.470046 | 68 | 9.489838 | 75 | 0.510162 | 9.980208 | 6 | 0 | 50 |
| | 10 | 9.470114 | 68 | 9.489913 | 74 | 0.510087 | 9.980202 | 7 | 50 | |
| | 20 | 9.470182 | 68 | 9.489987 | 74 | 0.510013 | 9.980195 | 7 | 40 | |
| | 30 | 9.470251 | 69 | 9.490062 | 75 | 0.509938 | 9.980189 | 7 | 30 | |
| | 40 | 9.470319 | 68 | 9.490137 | 74 | 0.509863 | 9.980182 | 7 | 20 | |
| | 50 | 9.470387 | 68 | 9.490211 | 74 | 0.509789 | 9.980176 | 7 | 10 | |
| 11 | 0 | 9.470455 | 68 | 9.490286 | 75 | 0.509714 | 9.980169 | 7 | 0 | 49 |
| | 10 | 9.470523 | 68 | 9.490360 | 75 | 0.509640 | 9.980163 | 7 | 50 | |
| | 20 | 9.470591 | 68 | 9.490435 | 75 | 0.509565 | 9.980156 | 7 | 40 | |
| | 30 | 9.470659 | 68 | 9.490510 | 75 | 0.509490 | 9.980149 | 7 | 30 | |
| | 40 | 9.470727 | 68 | 9.490584 | 74 | 0.509416 | 9.980143 | 7 | 20 | |
| | 50 | 9.470795 | 68 | 9.490659 | 75 | 0.509341 | 9.980136 | 7 | 10 | |
| 12 | 0 | 9.470863 | 68 | 9.490733 | 74 | 0.509267 | 9.980130 | 7 | 0 | 48 |
| | 10 | 9.470931 | 68 | 9.490808 | 75 | 0.509192 | 9.980123 | 7 | 50 | |
| | 20 | 9.470999 | 68 | 9.490882 | 74 | 0.509118 | 9.980117 | 7 | 40 | |
| | 30 | 9.471067 | 68 | 9.490957 | 75 | 0.509043 | 9.980110 | 7 | 30 | |
| | 40 | 9.471135 | 68 | 9.491031 | 75 | 0.508969 | 9.980104 | 7 | 20 | |
| | 50 | 9.471203 | 68 | 9.491106 | 74 | 0.508896 | 9.980097 | 7 | 10 | |
| 13 | 0 | 9.471271 | 68 | 9.491180 | 75 | 0.508822 | 9.980091 | 7 | 0 | 47 |
| | 10 | 9.471339 | 68 | 9.491255 | 74 | 0.508747 | 9.980084 | 7 | 50 | |
| | 20 | 9.471407 | 68 | 9.491329 | 75 | 0.508671 | 9.980078 | 7 | 40 | |
| | 30 | 9.471475 | 68 | 9.491404 | 75 | 0.508596 | 9.980071 | 7 | 30 | |
| | 40 | 9.471543 | 68 | 9.491478 | 74 | 0.508522 | 9.980065 | 7 | 20 | |
| | 50 | 9.471611 | 68 | 9.491552 | 75 | 0.508448 | 9.980058 | 7 | 10 | |
| 14 | 0 | 9.471679 | 67 | 9.491627 | 74 | 0.508373 | 9.980052 | 7 | 0 | 46 |
| | 10 | 9.471746 | 68 | 9.491701 | 75 | 0.508299 | 9.980045 | 7 | 50 | |
| | 20 | 9.471814 | 68 | 9.491776 | 74 | 0.508224 | 9.980039 | 7 | 40 | |
| | 30 | 9.471882 | 68 | 9.491850 | 74 | 0.508150 | 9.980032 | 7 | 30 | |
| | 40 | 9.471950 | 68 | 9.491924 | 75 | 0.508076 | 9.980026 | 7 | 20 | |
| | 50 | 9.472018 | 68 | 9.491999 | 74 | 0.508001 | 9.980019 | 7 | 10 | |
| 15 | 0 | 9.472086 | 67 | 9.492073 | 74 | 0.507927 | 9.980012 | 6 | 0 | 45 |
| | 10 | 9.472153 | 68 | 9.492147 | 75 | 0.507853 | 9.980006 | 7 | 50 | |
| | 20 | 9.472221 | 68 | 9.492222 | 74 | 0.507778 | 9.979999 | 7 | 40 | |
| | 30 | 9.472289 | 68 | 9.492296 | 74 | 0.507704 | 9.979993 | 7 | 30 | |
| | 40 | 9.472357 | 67 | 9.492370 | 75 | 0.507630 | 9.979986 | 7 | 20 | |
| | 50 | 9.472424 | 68 | 9.492445 | 74 | 0.507555 | 9.979980 | 7 | 10 | |
| 16 | 0 | 9.472492 | 68 | 9.492519 | 75 | 0.507481 | 9.979973 | 7 | 0 | 44 |
| | 10 | 9.472560 | 68 | 9.492593 | 74 | 0.507407 | 9.979967 | 7 | 50 | |
| | 20 | 9.472628 | 67 | 9.492668 | 74 | 0.507332 | 9.979960 | 7 | 40 | |
| | 30 | 9.472695 | 68 | 9.492742 | 74 | 0.507258 | 9.979954 | 7 | 30 | |
| | 40 | 9.472763 | 68 | 9.492816 | 74 | 0.507184 | 9.979947 | 7 | 20 | |
| | 50 | 9.472831 | 67 | 9.492890 | 75 | 0.507110 | 9.979940 | 7 | 10 | |
| 17 | 0 | 9.472898 | 68 | 9.492965 | 74 | 0.507035 | 9.979934 | 7 | 0 | 43 |
| | 10 | 9.472966 | 68 | 9.493039 | 74 | 0.506961 | 9.979927 | 7 | 50 | |
| | 20 | 9.473034 | 67 | 9.493113 | 74 | 0.506887 | 9.979921 | 7 | 40 | |
| | 30 | 9.473101 | 68 | 9.493187 | 74 | 0.506813 | 9.979914 | 7 | 30 | |
| | 40 | 9.473169 | 68 | 9.493261 | 75 | 0.506739 | 9.979908 | 7 | 20 | |
| | 50 | 9.473237 | 67 | 9.493336 | 74 | 0.506664 | 9.979901 | 7 | 10 | |
| 18 | 0 | 9.473304 | 68 | 9.493410 | 74 | 0.506590 | 9.979895 | 7 | 0 | 42 |
| | 10 | 9.473372 | 67 | 9.493484 | 74 | 0.506516 | 9.979888 | 7 | 50 | |
| | 20 | 9.473439 | 68 | 9.493558 | 74 | 0.506442 | 9.979881 | 7 | 40 | |
| | 30 | 9.473507 | 68 | 9.493632 | 74 | 0.506368 | 9.979875 | 7 | 30 | |
| | 40 | 9.473575 | 67 | 9.493706 | 74 | 0.506294 | 9.979868 | 7 | 20 | |
| | 50 | 9.473642 | 68 | 9.493780 | 74 | 0.506220 | 9.979862 | 7 | 10 | |
| 19 | 0 | 9.473710 | 67 | 9.493854 | 75 | 0.506146 | 9.979855 | 7 | 0 | 41 |
| | 10 | 9.473777 | 68 | 9.493929 | 74 | 0.506071 | 9.979849 | 7 | 50 | |
| | 20 | 9.473845 | 67 | 9.494003 | 74 | 0.505997 | 9.979842 | 7 | 40 | |
| | 30 | 9.473912 | 68 | 9.494077 | 74 | 0.505923 | 9.979836 | 7 | 30 | |
| | 40 | 9.473980 | 67 | 9.494151 | 74 | 0.505849 | 9.979829 | 7 | 20 | |
| | 50 | 9.474047 | 68 | 9.494225 | 74 | 0.505775 | 9.979822 | 7 | 10 | |
| 20 | 0 | 9.474115 | 68 | 9.494299 | 74 | 0.505701 | 9.979816 | 7 | 0 | 40 |

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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|-----------|----|----------|-------|----------|----------|----|----|----|
| 74 | 20 | 0.9474115 | 67 | 9.494299 | 74 | 0.505701 | 9.979816 | 7 | 0 | 40 |
| 1 7.4 | 10 | 9.474182 | 68 | 9.494373 | 74 | 0.505627 | 9.979809 | 6 | 50 | |
| 2 14.8 | 20 | 9.474250 | 67 | 9.494447 | 74 | 0.505553 | 9.979803 | 7 | 40 | |
| 3 22.2 | 30 | 9.474317 | 67 | 9.494521 | 74 | 0.505479 | 9.979796 | 6 | 30 | |
| 4 29.6 | 40 | 9.474384 | 68 | 9.494595 | 74 | 0.505405 | 9.979790 | 7 | 20 | |
| 5 37.0 | 50 | 9.474452 | 67 | 9.494669 | 74 | 0.505331 | 9.979783 | 7 | 10 | |
| 6 44.4 | 21 | 0.9474519 | 68 | 9.494743 | 74 | 0.505257 | 9.979776 | 6 | 0 | 39 |
| 7 51.8 | 10 | 9.474587 | 67 | 9.494817 | 74 | 0.505183 | 9.979770 | 7 | 50 | |
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| | 10 | 9.474991 | 67 | 9.495260 | 74 | 0.504740 | 9.979730 | 6 | 50 | |
| | 20 | 9.475058 | 67 | 9.495334 | 74 | 0.504666 | 9.979724 | 7 | 40 | |
| | 30 | 9.475125 | 67 | 9.495408 | 74 | 0.504592 | 9.979717 | 6 | 30 | |
| | 40 | 9.475193 | 68 | 9.495482 | 74 | 0.504518 | 9.979711 | 7 | 20 | |
| | 50 | 9.475260 | 67 | 9.495556 | 74 | 0.504444 | 9.979704 | 7 | 10 | |
| 73 | 23 | 0.9475327 | 67 | 9.495630 | 74 | 0.504370 | 9.979697 | 6 | 0 | 37 |
| 1 7.3 | 10 | 9.475394 | 68 | 9.495704 | 73 | 0.504296 | 9.979691 | 7 | 50 | |
| 2 14.6 | 20 | 9.475462 | 67 | 9.495777 | 73 | 0.504223 | 9.979684 | 7 | 40 | |
| 3 21.9 | 30 | 9.475529 | 67 | 9.495851 | 74 | 0.504149 | 9.979678 | 6 | 30 | |
| 4 29.2 | 40 | 9.475596 | 67 | 9.495925 | 74 | 0.504075 | 9.979671 | 7 | 20 | |
| 5 36.5 | 50 | 9.475663 | 67 | 9.495999 | 74 | 0.504001 | 9.979664 | 6 | 10 | |
| 6 43.8 | 24 | 0.9475730 | 68 | 9.496073 | 73 | 0.503927 | 9.979658 | 7 | 0 | 36 |
| 7 51.1 | 10 | 9.475798 | 67 | 9.496146 | 74 | 0.503853 | 9.979651 | 6 | 50 | |
| 8 58.4 | 20 | 9.475865 | 67 | 9.496220 | 74 | 0.503780 | 9.979645 | 7 | 40 | |
| 9 65.7 | 30 | 9.475932 | 67 | 9.496294 | 74 | 0.503706 | 9.979638 | 6 | 30 | |
| | 40 | 9.475999 | 67 | 9.496368 | 74 | 0.503632 | 9.979631 | 7 | 20 | |
| | 50 | 9.476066 | 67 | 9.496441 | 73 | 0.503559 | 9.979625 | 6 | 10 | |
| | 25 | 0.9476133 | 67 | 9.496515 | 74 | 0.503485 | 9.979618 | 6 | 0 | 35 |
| | 10 | 9.476200 | 68 | 9.496589 | 74 | 0.503411 | 9.979612 | 7 | 50 | |
| | 20 | 9.476268 | 67 | 9.496663 | 73 | 0.503337 | 9.979605 | 7 | 40 | |
| | 30 | 9.476335 | 67 | 9.496736 | 74 | 0.503264 | 9.979598 | 6 | 30 | |
| | 40 | 9.476402 | 67 | 9.496810 | 74 | 0.503190 | 9.979592 | 7 | 20 | |
| | 50 | 9.476469 | 67 | 9.496884 | 73 | 0.503116 | 9.979585 | 6 | 10 | |
| 68 | 26 | 0.9476536 | 67 | 9.496957 | 74 | 0.503043 | 9.979579 | 7 | 0 | 34 |
| 1 6.8 | 10 | 9.476603 | 67 | 9.497031 | 74 | 0.502969 | 9.979572 | 6 | 50 | |
| 2 13.6 | 20 | 9.476670 | 67 | 9.497105 | 74 | 0.502895 | 9.979565 | 7 | 40 | |
| 3 20.4 | 30 | 9.476737 | 67 | 9.497178 | 73 | 0.502822 | 9.979559 | 6 | 30 | |
| 4 27.2 | 40 | 9.476804 | 67 | 9.497252 | 74 | 0.502748 | 9.979552 | 7 | 20 | |
| 5 34.0 | 50 | 9.476871 | 67 | 9.497326 | 74 | 0.502674 | 9.979545 | 6 | 10 | |
| 6 40.8 | 27 | 0.9476938 | 67 | 9.497399 | 73 | 0.502601 | 9.979539 | 7 | 0 | 33 |
| 7 47.6 | 10 | 9.477005 | 67 | 9.497473 | 74 | 0.502527 | 9.979532 | 6 | 50 | |
| 8 54.4 | 20 | 9.477072 | 67 | 9.497546 | 73 | 0.502454 | 9.979526 | 7 | 40 | |
| 9 61.2 | 30 | 9.477139 | 67 | 9.497620 | 74 | 0.502380 | 9.979519 | 6 | 30 | |
| | 40 | 9.477206 | 67 | 9.497693 | 73 | 0.502307 | 9.979512 | 7 | 20 | |
| | 50 | 9.477273 | 67 | 9.497767 | 74 | 0.502233 | 9.979506 | 6 | 10 | |
| | 28 | 0.9477340 | 67 | 9.497841 | 73 | 0.502159 | 9.979499 | 7 | 0 | 32 |
| | 10 | 9.477407 | 66 | 9.497914 | 74 | 0.502086 | 9.979492 | 6 | 50 | |
| | 20 | 9.477473 | 67 | 9.497988 | 74 | 0.502012 | 9.979486 | 7 | 40 | |
| | 30 | 9.477540 | 67 | 9.498061 | 73 | 0.501939 | 9.979479 | 6 | 30 | |
| | 40 | 9.477607 | 67 | 9.498135 | 74 | 0.501865 | 9.979473 | 7 | 20 | |
| | 50 | 9.477674 | 67 | 9.498208 | 73 | 0.501792 | 9.979466 | 6 | 10 | |
| | 29 | 0.9477741 | 67 | 9.498282 | 74 | 0.501718 | 9.979459 | 7 | 0 | 31 |
| | 10 | 9.477808 | 67 | 9.498355 | 73 | 0.501645 | 9.979453 | 6 | 50 | |
| | 20 | 9.477875 | 67 | 9.498429 | 74 | 0.501571 | 9.979446 | 7 | 40 | |
| | 30 | 9.477941 | 66 | 9.498502 | 73 | 0.501498 | 9.979439 | 6 | 30 | |
| | 40 | 9.478008 | 67 | 9.498575 | 74 | 0.501425 | 9.979433 | 7 | 20 | |
| | 50 | 9.478075 | 67 | 9.498649 | 73 | 0.501351 | 9.979426 | 6 | 10 | |
| | 30 | 0.9478142 | 67 | 9.498722 | 73 | 0.501278 | 9.979420 | 7 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.478142 | 67 | 9.498722 | 74 | 0.501278 | 9.979420 | 7 | 0 | 30 |
| | 10 | 9.478209 | 66 | 9.498796 | 73 | 0.501204 | 9.979413 | 7 | 50 | |
| | 20 | 9.478275 | 66 | 9.498869 | 73 | 0.501131 | 9.979406 | 7 | 40 | |
| | 30 | 9.478342 | 67 | 9.498943 | 74 | 0.501057 | 9.979400 | 7 | 30 | |
| | 40 | 9.478409 | 67 | 9.499016 | 73 | 0.500984 | 9.979393 | 7 | 20 | |
| | 50 | 9.478476 | 66 | 9.499089 | 73 | 0.500911 | 9.979386 | 7 | 10 | |
| 31 | 0 | 9.478542 | 67 | 9.499163 | 74 | 0.500837 | 9.979380 | 6 | 0 | 29 |
| | 10 | 9.478609 | 67 | 9.499236 | 73 | 0.500764 | 9.979373 | 7 | 50 | |
| | 20 | 9.478676 | 66 | 9.499309 | 73 | 0.500691 | 9.979366 | 7 | 40 | |
| | 30 | 9.478742 | 67 | 9.499383 | 74 | 0.500617 | 9.979360 | 7 | 30 | |
| | 40 | 9.478809 | 67 | 9.499456 | 73 | 0.500544 | 9.979353 | 7 | 20 | |
| | 50 | 9.478876 | 66 | 9.499529 | 73 | 0.500471 | 9.979346 | 7 | 10 | |
| 32 | 0 | 9.478942 | 67 | 9.499603 | 74 | 0.500397 | 9.979340 | 6 | 0 | 28 |
| | 10 | 9.479009 | 67 | 9.499676 | 73 | 0.500324 | 9.979333 | 7 | 50 | |
| | 20 | 9.479076 | 66 | 9.499749 | 73 | 0.500251 | 9.979326 | 7 | 40 | |
| | 30 | 9.479142 | 67 | 9.499822 | 73 | 0.500178 | 9.979320 | 7 | 30 | |
| | 40 | 9.479209 | 66 | 9.499896 | 74 | 0.500104 | 9.979313 | 7 | 20 | |
| | 50 | 9.479275 | 67 | 9.499969 | 73 | 0.500031 | 9.979306 | 7 | 10 | |
| 33 | 0 | 9.479342 | 67 | 9.500042 | 73 | 0.499958 | 9.979300 | 7 | 0 | 27 |
| | 10 | 9.479409 | 66 | 9.500115 | 73 | 0.499885 | 9.979293 | 7 | 50 | |
| | 20 | 9.479475 | 67 | 9.500189 | 74 | 0.499811 | 9.979287 | 6 | 40 | |
| | 30 | 9.479542 | 66 | 9.500262 | 73 | 0.499738 | 9.979280 | 7 | 30 | |
| | 40 | 9.479608 | 67 | 9.500335 | 73 | 0.499665 | 9.979273 | 7 | 20 | |
| | 50 | 9.479675 | 66 | 9.500408 | 73 | 0.499592 | 9.979267 | 6 | 10 | |
| 34 | 0 | 9.479741 | 67 | 9.500481 | 73 | 0.499519 | 9.979260 | 7 | 0 | 26 |
| | 10 | 9.479808 | 67 | 9.500555 | 74 | 0.499445 | 9.979253 | 7 | 50 | |
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| | 30 | 9.479941 | 66 | 9.500701 | 73 | 0.499299 | 9.979240 | 7 | 30 | |
| | 40 | 9.480007 | 67 | 9.500774 | 73 | 0.499226 | 9.979233 | 7 | 20 | |
| | 50 | 9.480074 | 66 | 9.500847 | 73 | 0.499153 | 9.979227 | 6 | 10 | |
| 35 | 0 | 9.480140 | 67 | 9.500920 | 73 | 0.499080 | 9.979220 | 7 | 0 | 25 |
| | 10 | 9.480207 | 66 | 9.500993 | 73 | 0.499007 | 9.979213 | 7 | 50 | |
| | 20 | 9.480273 | 66 | 9.501066 | 73 | 0.498934 | 9.979206 | 7 | 40 | |
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| | 10 | 9.480605 | 66 | 9.501432 | 73 | 0.498568 | 9.979173 | 7 | 50 | |
| | 20 | 9.480671 | 66 | 9.501505 | 73 | 0.498495 | 9.979166 | 7 | 40 | |
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| | 40 | 9.480804 | 66 | 9.501651 | 73 | 0.498349 | 9.979153 | 7 | 20 | |
| | 50 | 9.480870 | 66 | 9.501724 | 73 | 0.498276 | 9.979146 | 7 | 10 | |
| 37 | 0 | 9.480937 | 66 | 9.501797 | 73 | 0.498203 | 9.979140 | 6 | 0 | 23 |
| | 10 | 9.481003 | 66 | 9.501870 | 73 | 0.498130 | 9.979133 | 7 | 50 | |
| | 20 | 9.481069 | 66 | 9.501943 | 73 | 0.498057 | 9.979126 | 7 | 40 | |
| | 30 | 9.481135 | 66 | 9.502016 | 73 | 0.497984 | 9.979120 | 6 | 30 | |
| | 40 | 9.481202 | 67 | 9.502089 | 73 | 0.497911 | 9.979113 | 7 | 20 | |
| | 50 | 9.481268 | 66 | 9.502162 | 73 | 0.497838 | 9.979106 | 7 | 10 | |
| 38 | 0 | 9.481334 | 66 | 9.502235 | 73 | 0.497765 | 9.979100 | 6 | 0 | 22 |
| | 10 | 9.481400 | 66 | 9.502308 | 73 | 0.497692 | 9.979093 | 7 | 50 | |
| | 20 | 9.481467 | 67 | 9.502381 | 73 | 0.497619 | 9.979086 | 7 | 40 | |
| | 30 | 9.481533 | 66 | 9.502453 | 72 | 0.497547 | 9.979079 | 7 | 30 | |
| | 40 | 9.481599 | 66 | 9.502526 | 73 | 0.497474 | 9.979073 | 6 | 20 | |
| | 50 | 9.481665 | 66 | 9.502599 | 73 | 0.497401 | 9.979066 | 7 | 10 | |
| 39 | 0 | 9.481731 | 66 | 9.502672 | 73 | 0.497328 | 9.979059 | 7 | 0 | 21 |
| | 10 | 9.481798 | 67 | 9.502745 | 73 | 0.497255 | 9.979053 | 6 | 50 | |
| | 20 | 9.481864 | 66 | 9.502818 | 73 | 0.497182 | 9.979046 | 7 | 40 | |
| | 30 | 9.481930 | 66 | 9.502891 | 73 | 0.497109 | 9.979039 | 7 | 30 | |
| | 40 | 9.481996 | 66 | 9.502964 | 72 | 0.497036 | 9.979033 | 6 | 20 | |
| | 50 | 9.482062 | 66 | 9.503036 | 72 | 0.496964 | 9.979026 | 7 | 10 | |
| 40 | 0 | 9.482128 | 66 | 9.503109 | 73 | 0.496891 | 9.979019 | 7 | 0 | 20 |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9.482128 | 66 | 9.503109 | 73 | 0.496891 | 9.979019 | 7 | 0 | 20 |
| | 10 | 9.482194 | 67 | 9.503182 | 73 | 0.496818 | 9.979012 | 6 | 50 | |
| | 20 | 9.482261 | 66 | 9.503255 | 73 | 0.496745 | 9.979006 | 7 | 40 | |
| | 30 | 9.482327 | 66 | 9.503328 | 73 | 0.496672 | 9.978999 | 7 | 30 | |
| | 40 | 9.482393 | 66 | 9.503400 | 72 | 0.496600 | 9.978992 | 7 | 20 | |
| | 50 | 9.482459 | 66 | 9.503473 | 73 | 0.496527 | 9.978986 | 6 | 10 | |
| 41 | 0 | 9.482525 | 66 | 9.503546 | 73 | 0.496454 | 9.978979 | 7 | 0 | 19 |
| | 10 | 9.482591 | 66 | 9.503619 | 72 | 0.496381 | 9.978972 | 7 | 50 | |
| | 20 | 9.482657 | 66 | 9.503691 | 73 | 0.496309 | 9.978965 | 6 | 40 | |
| | 30 | 9.482723 | 66 | 9.503764 | 73 | 0.496236 | 9.978959 | 7 | 30 | |
| | 40 | 9.482789 | 66 | 9.503837 | 73 | 0.496163 | 9.978952 | 7 | 20 | |
| | 50 | 9.482855 | 66 | 9.503910 | 73 | 0.496090 | 9.978945 | 6 | 10 | |
| 42 | 0 | 9.482921 | 66 | 9.503982 | 73 | 0.496017 | 9.978938 | 7 | 0 | 18 |
| | 10 | 9.482987 | 66 | 9.504055 | 73 | 0.495944 | 9.978931 | 7 | 50 | |
| | 20 | 9.483053 | 66 | 9.504128 | 72 | 0.495872 | 9.978925 | 6 | 40 | |
| | 30 | 9.483119 | 66 | 9.504200 | 73 | 0.495800 | 9.978918 | 7 | 30 | |
| | 40 | 9.483185 | 66 | 9.504273 | 73 | 0.495727 | 9.978912 | 6 | 20 | |
| | 50 | 9.483251 | 66 | 9.504346 | 72 | 0.495654 | 9.978905 | 7 | 10 | |
| 43 | 0 | 9.483316 | 66 | 9.504418 | 73 | 0.495582 | 9.978898 | 6 | 0 | 17 |
| | 10 | 9.483382 | 66 | 9.504491 | 72 | 0.495509 | 9.978892 | 7 | 50 | |
| | 20 | 9.483448 | 66 | 9.504563 | 73 | 0.495437 | 9.978885 | 7 | 40 | |
| | 30 | 9.483514 | 66 | 9.504636 | 73 | 0.495364 | 9.978878 | 7 | 30 | |
| | 40 | 9.483580 | 66 | 9.504709 | 73 | 0.495291 | 9.978871 | 6 | 20 | |
| | 50 | 9.483646 | 66 | 9.504781 | 72 | 0.495219 | 9.978865 | 7 | 10 | |
| 44 | 0 | 9.483712 | 66 | 9.504854 | 73 | 0.495146 | 9.978858 | 7 | 0 | 16 |
| | 10 | 9.483778 | 65 | 9.504926 | 73 | 0.495074 | 9.978851 | 7 | 50 | |
| | 20 | 9.483843 | 66 | 9.504999 | 73 | 0.495001 | 9.978844 | 6 | 40 | |
| | 30 | 9.483909 | 66 | 9.505072 | 72 | 0.494928 | 9.978838 | 7 | 30 | |
| | 40 | 9.483975 | 66 | 9.505144 | 73 | 0.494856 | 9.978831 | 7 | 20 | |
| | 50 | 9.484041 | 66 | 9.505217 | 73 | 0.494783 | 9.978824 | 7 | 10 | |
| 45 | 0 | 9.484107 | 65 | 9.505289 | 73 | 0.494711 | 9.978817 | 6 | 0 | 15 |
| | 10 | 9.484172 | 66 | 9.505362 | 72 | 0.494638 | 9.978811 | 7 | 50 | |
| | 20 | 9.484238 | 66 | 9.505434 | 73 | 0.494566 | 9.978804 | 7 | 40 | |
| | 30 | 9.484304 | 66 | 9.505507 | 73 | 0.494493 | 9.978797 | 6 | 30 | |
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| | 50 | 9.484435 | 66 | 9.505652 | 72 | 0.494348 | 9.978784 | 7 | 10 | |
| 46 | 0 | 9.484501 | 66 | 9.505724 | 72 | 0.494276 | 9.978777 | 7 | 0 | 14 |
| | 10 | 9.484567 | 65 | 9.505796 | 73 | 0.494204 | 9.978770 | 6 | 50 | |
| | 20 | 9.484632 | 66 | 9.505869 | 73 | 0.494131 | 9.978764 | 7 | 40 | |
| | 30 | 9.484698 | 66 | 9.505941 | 72 | 0.494059 | 9.978757 | 7 | 30 | |
| | 40 | 9.484764 | 66 | 9.506014 | 73 | 0.493986 | 9.978750 | 7 | 20 | |
| | 50 | 9.484830 | 65 | 9.506086 | 72 | 0.493914 | 9.978743 | 6 | 10 | |
| 47 | 0 | 9.484895 | 66 | 9.506159 | 73 | 0.493841 | 9.978736 | 7 | 0 | 13 |
| | 10 | 9.484961 | 65 | 9.506231 | 72 | 0.493769 | 9.978730 | 7 | 50 | |
| | 20 | 9.485026 | 66 | 9.506303 | 73 | 0.493697 | 9.978723 | 7 | 40 | |
| | 30 | 9.485092 | 66 | 9.506376 | 73 | 0.493624 | 9.978716 | 7 | 30 | |
| | 40 | 9.485158 | 66 | 9.506448 | 72 | 0.493552 | 9.978709 | 7 | 20 | |
| | 50 | 9.485223 | 65 | 9.506520 | 72 | 0.493480 | 9.978703 | 6 | 10 | |
| 48 | 0 | 9.485289 | 66 | 9.506593 | 73 | 0.493407 | 9.978696 | 7 | 0 | 12 |
| | 10 | 9.485354 | 65 | 9.506665 | 72 | 0.493335 | 9.978689 | 7 | 50 | |
| | 20 | 9.485420 | 66 | 9.506737 | 73 | 0.493263 | 9.978682 | 7 | 40 | |
| | 30 | 9.485485 | 65 | 9.506810 | 73 | 0.493190 | 9.978676 | 6 | 30 | |
| | 40 | 9.485551 | 66 | 9.506882 | 72 | 0.493118 | 9.978669 | 7 | 20 | |
| | 50 | 9.485617 | 66 | 9.506954 | 72 | 0.493046 | 9.978662 | 7 | 10 | |
| 49 | 0 | 9.485682 | 66 | 9.507027 | 73 | 0.492974 | 9.978655 | 6 | 0 | 11 |
| | 10 | 9.485748 | 65 | 9.507099 | 72 | 0.492902 | 9.978648 | 7 | 50 | |
| | 20 | 9.485813 | 66 | 9.507171 | 73 | 0.492829 | 9.978642 | 7 | 40 | |
| | 30 | 9.485879 | 66 | 9.507243 | 72 | 0.492757 | 9.978635 | 7 | 30 | |
| | 40 | 9.485944 | 65 | 9.507316 | 73 | 0.492684 | 9.978628 | 7 | 20 | |
| | 50 | 9.486009 | 65 | 9.507388 | 72 | 0.492612 | 9.978622 | 6 | 10 | |
| 50 | 0 | 9.486075 | 66 | 9.507460 | 72 | 0.492540 | 9.978615 | 7 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 50 | 0 | 9.486075 | 65 | 9.507460 | 72 | 0.492540 | 9.978615 | 7 | 0 | 10 |
| | 10 | 9.486140 | 66 | 9.507532 | 73 | 0.492468 | 9.978608 | 7 | 50 | |
| | 20 | 9.486206 | 65 | 9.507605 | 72 | 0.492395 | 9.978601 | 7 | 40 | |
| | 30 | 9.486271 | 66 | 9.507677 | 72 | 0.492323 | 9.978594 | 7 | 30 | |
| | 40 | 9.486337 | 65 | 9.507749 | 72 | 0.492251 | 9.978588 | 7 | 20 | |
| | 50 | 9.486402 | 65 | 9.507821 | 72 | 0.492179 | 9.978581 | 7 | 10 | |
| 51 | 0 | 9.486467 | 65 | 9.507893 | 72 | 0.492107 | 9.978574 | 7 | 0 | 9 |
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| | 40 | 9.486729 | 65 | 9.508182 | 72 | 0.491818 | 9.978547 | 7 | 20 | |
| | 50 | 9.486794 | 66 | 9.508254 | 72 | 0.491746 | 9.978540 | 7 | 10 | |
| 52 | 0 | 9.486860 | 65 | 9.508326 | 72 | 0.491674 | 9.978533 | 7 | 0 | 8 |
| | 10 | 9.486925 | 65 | 9.508398 | 72 | 0.491602 | 9.978527 | 7 | 50 | |
| | 20 | 9.486990 | 65 | 9.508470 | 72 | 0.491530 | 9.978520 | 7 | 40 | |
| | 30 | 9.487055 | 66 | 9.508542 | 72 | 0.491458 | 9.978513 | 7 | 30 | |
| | 40 | 9.487121 | 65 | 9.508614 | 72 | 0.491386 | 9.978506 | 7 | 20 | |
| | 50 | 9.487186 | 65 | 9.508687 | 73 | 0.491313 | 9.978499 | 7 | 10 | |
| 53 | 0 | 9.487251 | 65 | 9.508759 | 72 | 0.491241 | 9.978493 | 7 | 0 | 7 |
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| | 40 | 9.488294 | 65 | 9.509910 | 72 | 0.490090 | 9.978384 | 7 | 20 | |
| | 50 | 9.488359 | 65 | 9.509982 | 72 | 0.490018 | 9.978377 | 7 | 10 | |
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| 60 | 0 | 9.489982 | 64 | 9.511776 | 72 | 0.488224 | 9.978206 | 7 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

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8 51.2
9 57.6

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.489982 | 65 | 9.511776 | 72 | 0.488224 | 9.978206 | 7 | 0 | 60 |
| | 10 | 9.490047 | 65 | 9.511848 | 71 | 0.488152 | 9.978199 | 6 | 50 | |
| | 20 | 9.490112 | 65 | 9.511919 | 71 | 0.488081 | 9.978193 | 7 | 40 | |
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| 1 | 0 | 9.490371 | 65 | 9.512206 | 71 | 0.487794 | 9.978165 | 7 | 0 | 59 |
| 2 | 10 | 9.490436 | 64 | 9.512277 | 72 | 0.487723 | 9.978158 | 6 | 50 | |
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| 6 | 50 | 9.490695 | 65 | 9.512564 | 72 | 0.487436 | 9.978131 | 7 | 10 | |
| 7 | 0 | 9.490759 | 64 | 9.512635 | 71 | 0.487365 | 9.978124 | 7 | 0 | 58 |
| 8 | 10 | 9.490824 | 65 | 9.512707 | 72 | 0.487293 | 9.978117 | 7 | 50 | |
| 9 | 20 | 9.490889 | 64 | 9.512778 | 71 | 0.487222 | 9.978110 | 6 | 40 | |
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| | 40 | 9.491018 | 65 | 9.512921 | 71 | 0.487079 | 9.978097 | 7 | 20 | |
| | 50 | 9.491082 | 64 | 9.512993 | 72 | 0.487007 | 9.978090 | 7 | 10 | |
| 71 | 0 | 9.491147 | 65 | 9.513064 | 71 | 0.486936 | 9.978083 | 7 | 0 | 57 |
| 1 | 10 | 9.491212 | 64 | 9.513136 | 72 | 0.486864 | 9.978076 | 7 | 50 | |
| 2 | 20 | 9.491276 | 65 | 9.513207 | 71 | 0.486793 | 9.978069 | 7 | 40 | |
| 3 | 30 | 9.491341 | 64 | 9.513278 | 72 | 0.486722 | 9.978062 | 7 | 30 | |
| 4 | 40 | 9.491405 | 65 | 9.513350 | 71 | 0.486650 | 9.978056 | 6 | 20 | |
| 5 | 50 | 9.491470 | 65 | 9.513421 | 72 | 0.486579 | 9.978049 | 7 | 10 | |
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| 7 | 10 | 9.491599 | 64 | 9.513564 | 72 | 0.486436 | 9.978035 | 7 | 50 | |
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| * | 0 | 9.491922 | 64 | 9.513921 | 71 | 0.486079 | 9.978001 | 7 | 0 | 55 |
| | 10 | 9.491986 | 65 | 9.513992 | 72 | 0.486008 | 9.977994 | 7 | 50 | |
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| 1 | 10 | 9.492373 | 64 | 9.514420 | 72 | 0.485580 | 9.977952 | 6 | 50 | |
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| 1 | 10 | 9.493145 | 64 | 9.515275 | 72 | 0.484724 | 9.977869 | 7 | 50 | |
| 2 | 20 | 9.493209 | 65 | 9.515346 | 71 | 0.484654 | 9.977863 | 7 | 40 | |
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| 5 | 50 | 9.493402 | 64 | 9.515560 | 72 | 0.484440 | 9.977842 | 7 | 10 | |
| 6 | 0 | 9.493466 | 64 | 9.515631 | 71 | 0.484369 | 9.977835 | 7 | 0 | 51 |
| 7 | 10 | 9.493530 | 65 | 9.515702 | 72 | 0.484298 | 9.977828 | 7 | 50 | |
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| 9 | 30 | 9.493659 | 64 | 9.515844 | 72 | 0.484156 | 9.977815 | 6 | 30 | |
| | 40 | 9.493723 | 64 | 9.515915 | 71 | 0.484085 | 9.977808 | 7 | 20 | |
| | 50 | 9.493787 | 64 | 9.515986 | 72 | 0.484014 | 9.977801 | 7 | 10 | |
| 10 | 0 | 9.493851 | 64 | 9.516057 | 71 | 0.483943 | 9.977794 | 7 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.493851 | 64 | 9.516057 | 72 | 0.483943 | 9.977794 | 7 | 0 | 50 |
| | 10 | 9.493915 | 65 | 9.516129 | 71 | 0.483871 | 9.977787 | 7 | 50 | |
| | 20 | 9.493980 | 66 | 9.516200 | 71 | 0.483800 | 9.977780 | 7 | 40 | |
| | 30 | 9.494044 | 64 | 9.516271 | 71 | 0.483729 | 9.977773 | 7 | 30 | |
| | 40 | 9.494108 | 64 | 9.516342 | 71 | 0.483658 | 9.977766 | 7 | 20 | |
| | 50 | 9.494172 | 64 | 9.516413 | 71 | 0.483587 | 9.977759 | 7 | 10 | |
| 11 | 0 | 9.494236 | 64 | 9.516484 | 71 | 0.483516 | 9.977752 | 7 | 0 | 49 |
| | 10 | 9.494300 | 64 | 9.516555 | 71 | 0.483445 | 9.977745 | 7 | 50 | |
| | 20 | 9.494364 | 64 | 9.516626 | 71 | 0.483374 | 9.977739 | 7 | 40 | |
| | 30 | 9.494428 | 64 | 9.516697 | 71 | 0.483303 | 9.977732 | 7 | 30 | |
| | 40 | 9.494492 | 64 | 9.516768 | 71 | 0.483232 | 9.977725 | 7 | 20 | |
| | 50 | 9.494556 | 65 | 9.516839 | 71 | 0.483161 | 9.977718 | 7 | 10 | |
| 12 | 0 | 9.494621 | 64 | 9.516910 | 71 | 0.483090 | 9.977711 | 7 | 0 | 48 |
| | 10 | 9.494685 | 64 | 9.516981 | 71 | 0.483019 | 9.977704 | 7 | 50 | |
| | 20 | 9.494749 | 64 | 9.517052 | 71 | 0.482948 | 9.977697 | 7 | 40 | |
| | 30 | 9.494813 | 64 | 9.517123 | 71 | 0.482877 | 9.977690 | 7 | 30 | |
| | 40 | 9.494877 | 64 | 9.517193 | 70 | 0.482807 | 9.977683 | 7 | 20 | |
| | 50 | 9.494941 | 64 | 9.517264 | 71 | 0.482736 | 9.977676 | 7 | 10 | |
| 13 | 0 | 9.495005 | 64 | 9.517335 | 71 | 0.482665 | 9.977669 | 7 | 0 | 47 |
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| | 40 | 9.495260 | 64 | 9.517619 | 71 | 0.482381 | 9.977642 | 7 | 20 | |
| | 50 | 9.495324 | 64 | 9.517690 | 71 | 0.482310 | 9.977635 | 7 | 10 | |
| 14 | 0 | 9.495388 | 64 | 9.517761 | 71 | 0.482239 | 9.977628 | 7 | 0 | 46 |
| | 10 | 9.495452 | 64 | 9.517831 | 71 | 0.482169 | 9.977621 | 7 | 50 | |
| | 20 | 9.495516 | 64 | 9.517902 | 71 | 0.482098 | 9.977614 | 7 | 40 | |
| | 30 | 9.495580 | 64 | 9.517973 | 71 | 0.482027 | 9.977607 | 7 | 30 | |
| | 40 | 9.495644 | 64 | 9.518044 | 71 | 0.481956 | 9.977600 | 7 | 20 | |
| | 50 | 9.495708 | 64 | 9.518115 | 71 | 0.481885 | 9.977593 | 7 | 10 | |
| 15 | 0 | 9.495772 | 63 | 9.518186 | 70 | 0.481814 | 9.977586 | 7 | 0 | 45 |
| | 10 | 9.495835 | 64 | 9.518256 | 71 | 0.481743 | 9.977579 | 7 | 50 | |
| | 20 | 9.495899 | 64 | 9.518327 | 71 | 0.481673 | 9.977572 | 7 | 40 | |
| | 30 | 9.495963 | 64 | 9.518398 | 71 | 0.481602 | 9.977565 | 7 | 30 | |
| | 40 | 9.496027 | 64 | 9.518469 | 71 | 0.481531 | 9.977558 | 7 | 20 | |
| | 50 | 9.496091 | 63 | 9.518539 | 71 | 0.481461 | 9.977551 | 7 | 10 | |
| 16 | 0 | 9.496154 | 64 | 9.518610 | 71 | 0.481390 | 9.977544 | 7 | 0 | 44 |
| | 10 | 9.496218 | 64 | 9.518681 | 71 | 0.481319 | 9.977537 | 7 | 50 | |
| | 20 | 9.496282 | 64 | 9.518752 | 71 | 0.481248 | 9.977530 | 7 | 40 | |
| | 30 | 9.496346 | 64 | 9.518822 | 70 | 0.481178 | 9.977524 | 7 | 30 | |
| | 40 | 9.496410 | 64 | 9.518893 | 71 | 0.481107 | 9.977517 | 7 | 20 | |
| | 50 | 9.496473 | 63 | 9.518964 | 71 | 0.481036 | 9.977510 | 7 | 10 | |
| 17 | 0 | 9.496537 | 64 | 9.519034 | 70 | 0.480966 | 9.977503 | 7 | 0 | 43 |
| | 10 | 9.496601 | 64 | 9.519105 | 71 | 0.480895 | 9.977496 | 7 | 50 | |
| | 20 | 9.496664 | 63 | 9.519176 | 71 | 0.480824 | 9.977489 | 7 | 40 | |
| | 30 | 9.496728 | 64 | 9.519246 | 70 | 0.480754 | 9.977482 | 7 | 30 | |
| | 40 | 9.496792 | 64 | 9.519317 | 71 | 0.480683 | 9.977475 | 7 | 20 | |
| | 50 | 9.496856 | 64 | 9.519388 | 71 | 0.480612 | 9.977468 | 7 | 10 | |
| 18 | 0 | 9.496919 | 63 | 9.519458 | 70 | 0.480541 | 9.977461 | 7 | 0 | 42 |
| | 10 | 9.496983 | 64 | 9.519529 | 71 | 0.480471 | 9.977454 | 7 | 50 | |
| | 20 | 9.497047 | 64 | 9.519600 | 71 | 0.480400 | 9.977447 | 7 | 40 | |
| | 30 | 9.497110 | 63 | 9.519670 | 70 | 0.480330 | 9.977440 | 7 | 30 | |
| | 40 | 9.497174 | 64 | 9.519741 | 71 | 0.480259 | 9.977433 | 7 | 20 | |
| | 50 | 9.497237 | 63 | 9.519811 | 70 | 0.480189 | 9.977426 | 7 | 10 | |
| 19 | 0 | 9.497301 | 64 | 9.519882 | 71 | 0.480118 | 9.977419 | 7 | 0 | 41 |
| | 10 | 9.497365 | 64 | 9.519953 | 71 | 0.480047 | 9.977412 | 7 | 50 | |
| | 20 | 9.497428 | 63 | 9.520023 | 70 | 0.479977 | 9.977405 | 7 | 40 | |
| | 30 | 9.497492 | 64 | 9.520094 | 71 | 0.479906 | 9.977398 | 7 | 30 | |
| | 40 | 9.497555 | 63 | 9.520164 | 70 | 0.479836 | 9.977391 | 7 | 20 | |
| | 50 | 9.497619 | 64 | 9.520235 | 71 | 0.479765 | 9.977384 | 7 | 10 | |
| 20 | 0 | 9.497682 | 63 | 9.520305 | 70 | 0.479695 | 9.977377 | 7 | 0 | 40 |

71
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 8 50.4
 9 56.7

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 20 | 0 | 9.497682 | 64 | 9.520305 | 71 | 0.479695 | 9.977377 | 7 | 0 | 40 |
| | 10 | 9.497746 | 64 | 9.520376 | 71 | 0.479624 | 9.977370 | 7 | 50 | |
| | 20 | 9.497810 | 63 | 9.520446 | 70 | 0.479554 | 9.977363 | 7 | 40 | |
| | 30 | 9.497873 | 64 | 9.520517 | 70 | 0.479483 | 9.977356 | 7 | 30 | |
| 71 | 40 | 9.497937 | 63 | 9.520587 | 70 | 0.479413 | 9.977349 | 7 | 20 | |
| 1 71.1 | 50 | 9.498004 | 64 | 9.520658 | 71 | 0.479342 | 9.977342 | 7 | 10 | |
| 2 14.2 | | | | | | | | | | |
| 3 21.3 | 21 | 0 | 63 | 9.520728 | 71 | 0.479272 | 9.977335 | 7 | 0 | 39 |
| 4 28.4 | | 10 | 63 | 9.520799 | 70 | 0.479201 | 9.977328 | 7 | 50 | |
| 5 35.5 | | 20 | 64 | 9.520869 | 70 | 0.479131 | 9.977321 | 7 | 40 | |
| 6 42.6 | | 30 | 63 | 9.520939 | 71 | 0.479061 | 9.977314 | 7 | 30 | |
| 7 49.7 | | 40 | 64 | 9.521010 | 70 | 0.478990 | 9.977307 | 7 | 20 | |
| 8 56.8 | | 50 | 63 | 9.521080 | 71 | 0.478920 | 9.977300 | 7 | 10 | |
| 9 63.9 | | | | | | | | | | |
| | 22 | 0 | 64 | 9.521151 | 70 | 0.478850 | 9.977293 | 7 | 0 | 38 |
| | | 10 | 63 | 9.521221 | 71 | 0.478780 | 9.977286 | 7 | 50 | |
| | | 20 | 63 | 9.521292 | 70 | 0.478710 | 9.977279 | 7 | 40 | |
| | | 30 | 64 | 9.521362 | 70 | 0.478640 | 9.977272 | 7 | 30 | |
| | | 40 | 63 | 9.521432 | 71 | 0.478570 | 9.977265 | 7 | 20 | |
| | | 50 | 64 | 9.521503 | 70 | 0.478500 | 9.977258 | 7 | 10 | |
| 70 | 23 | 0 | 63 | 9.521573 | 70 | 0.478430 | 9.977251 | 7 | 0 | 37 |
| 1 70.0 | | 10 | 63 | 9.521643 | 71 | 0.478360 | 9.977244 | 7 | 50 | |
| 2 14.0 | | 20 | 64 | 9.521714 | 70 | 0.478290 | 9.977237 | 7 | 40 | |
| 3 21.0 | | 30 | 63 | 9.521784 | 70 | 0.478220 | 9.977230 | 7 | 30 | |
| 4 28.0 | | 40 | 63 | 9.521854 | 71 | 0.478150 | 9.977223 | 7 | 20 | |
| 5 35.0 | | 50 | 63 | 9.521925 | 70 | 0.478080 | 9.977216 | 7 | 10 | |
| 6 42.0 | | | | | | | | | | |
| 7 49.0 | 24 | 0 | 64 | 9.521995 | 70 | 0.478010 | 9.977209 | 7 | 0 | 36 |
| 8 56.0 | | 10 | 63 | 9.522065 | 71 | 0.477940 | 9.977202 | 7 | 50 | |
| 9 63.0 | | 20 | 63 | 9.522136 | 70 | 0.477870 | 9.977195 | 7 | 40 | |
| | | 30 | 64 | 9.522206 | 70 | 0.477800 | 9.977188 | 7 | 30 | |
| | | 40 | 63 | 9.522276 | 70 | 0.477730 | 9.977181 | 7 | 20 | |
| | | 50 | 63 | 9.522346 | 71 | 0.477660 | 9.977174 | 7 | 10 | |
| * | 25 | 0 | 63 | 9.522417 | 70 | 0.477590 | 9.977167 | 7 | 0 | 35 |
| | | 10 | 64 | 9.522487 | 70 | 0.477520 | 9.977160 | 7 | 50 | |
| | | 20 | 63 | 9.522557 | 70 | 0.477450 | 9.977153 | 7 | 40 | |
| | | 30 | 63 | 9.522627 | 71 | 0.477380 | 9.977146 | 7 | 30 | |
| | | 40 | 63 | 9.522697 | 70 | 0.477310 | 9.977139 | 7 | 20 | |
| | | 50 | 63 | 9.522768 | 70 | 0.477240 | 9.977132 | 7 | 10 | |
| 64 | 26 | 0 | 63 | 9.522838 | 70 | 0.477170 | 9.977125 | 7 | 0 | 34 |
| 1 64.4 | | 10 | 64 | 9.522908 | 70 | 0.477100 | 9.977118 | 7 | 50 | |
| 2 12.8 | | 20 | 63 | 9.522978 | 70 | 0.477030 | 9.977111 | 7 | 40 | |
| 3 19.2 | | 30 | 63 | 9.523048 | 71 | 0.476960 | 9.977104 | 7 | 30 | |
| 4 25.6 | | 40 | 63 | 9.523119 | 70 | 0.476890 | 9.977097 | 7 | 20 | |
| 5 32.0 | | 50 | 63 | 9.523189 | 70 | 0.476820 | 9.977090 | 7 | 10 | |
| 6 38.4 | | | | | | | | | | |
| 7 44.8 | 27 | 0 | 63 | 9.523259 | 70 | 0.476750 | 9.977083 | 7 | 0 | 33 |
| 8 51.2 | | 10 | 63 | 9.523329 | 70 | 0.476680 | 9.977076 | 7 | 50 | |
| 9 57.6 | | 20 | 63 | 9.523399 | 70 | 0.476610 | 9.977069 | 7 | 40 | |
| | | 30 | 63 | 9.523469 | 70 | 0.476540 | 9.977062 | 7 | 30 | |
| | | 40 | 63 | 9.523539 | 71 | 0.476470 | 9.977055 | 7 | 20 | |
| | | 50 | 64 | 9.523609 | 70 | 0.476400 | 9.977048 | 7 | 10 | |
| 63 | 28 | 0 | 63 | 9.523679 | 70 | 0.476330 | 9.977041 | 7 | 0 | 32 |
| 1 63.3 | | 10 | 63 | 9.523750 | 70 | 0.476260 | 9.977034 | 7 | 50 | |
| 2 12.6 | | 20 | 63 | 9.523820 | 70 | 0.476190 | 9.977027 | 7 | 40 | |
| 3 18.9 | | 30 | 63 | 9.523890 | 70 | 0.476120 | 9.977020 | 7 | 30 | |
| 4 25.2 | | 40 | 63 | 9.523960 | 70 | 0.476050 | 9.977013 | 7 | 20 | |
| 5 31.5 | | 50 | 63 | 9.524030 | 70 | 0.475980 | 9.977006 | 7 | 10 | |
| 6 37.8 | | | | | | | | | | |
| 7 44.1 | 29 | 0 | 63 | 9.524100 | 70 | 0.475910 | 9.976999 | 7 | 0 | 31 |
| 8 50.4 | | 10 | 63 | 9.524170 | 70 | 0.475840 | 9.976992 | 7 | 50 | |
| 9 56.7 | | 20 | 63 | 9.524240 | 70 | 0.475770 | 9.976985 | 7 | 40 | |
| | | 30 | 63 | 9.524310 | 70 | 0.475700 | 9.976978 | 7 | 30 | |
| | | 40 | 63 | 9.524380 | 70 | 0.475630 | 9.976971 | 7 | 20 | |
| | | 50 | 63 | 9.524450 | 70 | 0.475560 | 9.976964 | 7 | 10 | |
| | 30 | 0 | 62 | 9.524520 | 70 | 0.475490 | 9.976957 | 7 | 0 | 30 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.501476 | 63 | 9.524520 | 70 | 0.475480 | 9.976957 | 7 | 0 | 30 |
| | 10 | 9.501539 | 63 | 9.524590 | 70 | 0.475410 | 9.976950 | 8 | 50 | |
| | 20 | 9.501602 | 63 | 9.524660 | 70 | 0.475340 | 9.976942 | 7 | 40 | |
| | 30 | 9.501665 | 63 | 9.524730 | 70 | 0.475270 | 9.976935 | 7 | 30 | |
| | 40 | 9.501728 | 63 | 9.524800 | 70 | 0.475200 | 9.976928 | 7 | 20 | |
| | 50 | 9.501791 | 63 | 9.524870 | 70 | 0.475130 | 9.976921 | 7 | 10 | |
| 31 | 0 | 9.501854 | 63 | 9.524940 | 69 | 0.475060 | 9.976914 | 7 | 0 | 29 |
| | 10 | 9.501917 | 63 | 9.525009 | 70 | 0.474991 | 9.976907 | 7 | 50 | |
| | 20 | 9.501980 | 62 | 9.525079 | 70 | 0.474921 | 9.976900 | 7 | 40 | |
| | 30 | 9.502042 | 63 | 9.525149 | 70 | 0.474851 | 9.976893 | 7 | 30 | |
| | 40 | 9.502105 | 63 | 9.525219 | 70 | 0.474781 | 9.976886 | 7 | 20 | |
| | 50 | 9.502168 | 63 | 9.525289 | 70 | 0.474711 | 9.976879 | 7 | 10 | |
| 32 | 0 | 9.502231 | 63 | 9.525359 | 70 | 0.474641 | 9.976872 | 7 | 0 | 28 |
| | 10 | 9.502294 | 62 | 9.525429 | 70 | 0.474571 | 9.976865 | 7 | 50 | |
| | 20 | 9.502356 | 63 | 9.525499 | 69 | 0.474501 | 9.976858 | 7 | 40 | |
| | 30 | 9.502419 | 63 | 9.525568 | 70 | 0.474432 | 9.976851 | 7 | 30 | |
| | 40 | 9.502482 | 63 | 9.525638 | 70 | 0.474362 | 9.976844 | 7 | 20 | |
| | 50 | 9.502545 | 62 | 9.525708 | 70 | 0.474292 | 9.976837 | 7 | 10 | |
| 33 | 0 | 9.502607 | 63 | 9.525778 | 70 | 0.474222 | 9.976830 | 7 | 0 | 27 |
| | 10 | 9.502670 | 63 | 9.525848 | 70 | 0.474152 | 9.976823 | 8 | 50 | |
| | 20 | 9.502733 | 63 | 9.525918 | 69 | 0.474082 | 9.976815 | 7 | 40 | |
| | 30 | 9.502796 | 62 | 9.525987 | 70 | 0.474013 | 9.976808 | 7 | 30 | |
| | 40 | 9.502858 | 63 | 9.526057 | 70 | 0.473943 | 9.976801 | 7 | 20 | |
| | 50 | 9.502921 | 63 | 9.526127 | 70 | 0.473873 | 9.976794 | 7 | 10 | |
| 34 | 0 | 9.502984 | 62 | 9.526197 | 69 | 0.473803 | 9.976787 | 7 | 0 | 26 |
| | 10 | 9.503046 | 63 | 9.526266 | 70 | 0.473733 | 9.976780 | 7 | 50 | |
| | 20 | 9.503109 | 63 | 9.526336 | 70 | 0.473664 | 9.976773 | 7 | 40 | |
| | 30 | 9.503172 | 62 | 9.526406 | 70 | 0.473594 | 9.976766 | 7 | 30 | |
| | 40 | 9.503234 | 63 | 9.526476 | 69 | 0.473524 | 9.976759 | 7 | 20 | |
| | 50 | 9.503297 | 63 | 9.526545 | 70 | 0.473455 | 9.976752 | 7 | 10 | |
| 35 | 0 | 9.503360 | 62 | 9.526615 | 70 | 0.473385 | 9.976745 | 7 | 0 | 25 |
| | 10 | 9.503422 | 63 | 9.526685 | 69 | 0.473315 | 9.976738 | 7 | 50 | |
| | 20 | 9.503485 | 63 | 9.526754 | 70 | 0.473246 | 9.976731 | 7 | 40 | |
| | 30 | 9.503548 | 62 | 9.526824 | 70 | 0.473176 | 9.976723 | 8 | 30 | |
| | 40 | 9.503610 | 63 | 9.526894 | 69 | 0.473106 | 9.976716 | 7 | 20 | |
| | 50 | 9.503673 | 62 | 9.526963 | 70 | 0.473036 | 9.976709 | 7 | 10 | |
| 36 | 0 | 9.503735 | 63 | 9.527033 | 70 | 0.472966 | 9.976702 | 7 | 0 | 24 |
| | 10 | 9.503798 | 62 | 9.527103 | 69 | 0.472896 | 9.976695 | 7 | 50 | |
| | 20 | 9.503860 | 63 | 9.527172 | 70 | 0.472826 | 9.976688 | 7 | 40 | |
| | 30 | 9.503923 | 62 | 9.527242 | 70 | 0.472756 | 9.976681 | 7 | 30 | |
| | 40 | 9.503985 | 63 | 9.527312 | 69 | 0.472686 | 9.976674 | 7 | 20 | |
| | 50 | 9.504048 | 62 | 9.527381 | 70 | 0.472616 | 9.976667 | 7 | 10 | |
| 37 | 0 | 9.504110 | 63 | 9.527451 | 69 | 0.472546 | 9.976660 | 7 | 0 | 23 |
| | 10 | 9.504173 | 62 | 9.527520 | 70 | 0.472476 | 9.976653 | 7 | 50 | |
| | 20 | 9.504235 | 63 | 9.527590 | 70 | 0.472406 | 9.976646 | 7 | 40 | |
| | 30 | 9.504298 | 62 | 9.527660 | 69 | 0.472336 | 9.976638 | 8 | 30 | |
| | 40 | 9.504360 | 63 | 9.527729 | 70 | 0.472267 | 9.976631 | 7 | 20 | |
| | 50 | 9.504423 | 62 | 9.527799 | 69 | 0.472201 | 9.976624 | 7 | 10 | |
| 38 | 0 | 9.504485 | 63 | 9.527868 | 70 | 0.472132 | 9.976617 | 7 | 0 | 22 |
| | 10 | 9.504548 | 62 | 9.527938 | 69 | 0.472062 | 9.976610 | 7 | 50 | |
| | 20 | 9.504610 | 63 | 9.528007 | 70 | 0.471993 | 9.976603 | 7 | 40 | |
| | 30 | 9.504673 | 62 | 9.528077 | 69 | 0.471923 | 9.976596 | 7 | 30 | |
| | 40 | 9.504735 | 62 | 9.528146 | 69 | 0.471854 | 9.976589 | 7 | 20 | |
| | 50 | 9.504797 | 63 | 9.528216 | 70 | 0.471784 | 9.976582 | 7 | 10 | |
| 39 | 0 | 9.504860 | 62 | 9.528285 | 69 | 0.471715 | 9.976574 | 8 | 0 | 21 |
| | 10 | 9.504922 | 63 | 9.528355 | 70 | 0.471645 | 9.976567 | 7 | 50 | |
| | 20 | 9.504985 | 62 | 9.528424 | 69 | 0.471576 | 9.976560 | 7 | 40 | |
| | 30 | 9.505047 | 62 | 9.528494 | 69 | 0.471506 | 9.976553 | 7 | 30 | |
| | 40 | 9.505109 | 63 | 9.528563 | 70 | 0.471437 | 9.976546 | 7 | 20 | |
| | 50 | 9.505172 | 62 | 9.528633 | 69 | 0.471367 | 9.976539 | 7 | 10 | |
| 40 | 0 | 9.505234 | 62 | 9.528702 | 70 | 0.471298 | 9.976532 | 7 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

70
1 7.0
2 14.0
3 21.0
4 28.0
5 35.0
6 42.0
7 49.0
8 56.0
9 63.0

69
1 6.9
2 13.8
3 20.7
4 27.6
5 34.5
6 41.4
7 48.3
8 55.2
9 62.1

*

63
1 6.3
2 12.6
3 18.9
4 25.2
5 31.5
6 37.8
7 44.1
8 50.4
9 56.7

62
1 6.2
2 12.4
3 18.6
4 24.8
5 31.0
6 37.2
7 43.4
8 49.6
9 55.8

| | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 40 | 0 | 9.505234 | 62 | 9.528702 | 70 | 0.471122 | 9.970525 | 7 | 0 | 20 |
| | 10 | 9.505296 | 63 | 9.528772 | 69 | 0.471122 | 9.970525 | 8 | 50 | |
| | 20 | 9.505359 | 62 | 9.528841 | 69 | 0.471159 | 9.970518 | 7 | 40 | |
| | 30 | 9.505421 | 62 | 9.528910 | 70 | 0.471090 | 9.970510 | 7 | 30 | |
| | 40 | 9.505483 | 62 | 9.528980 | 69 | 0.471020 | 9.970503 | 7 | 20 | |
| | 50 | 9.505545 | 63 | 9.529049 | 70 | 0.470950 | 9.970495 | 7 | 10 | |
| 41 | 0 | 9.505608 | 62 | 9.529119 | 69 | 0.470880 | 9.970488 | 7 | 0 | 19 |
| | 10 | 9.505670 | 62 | 9.529188 | 69 | 0.470810 | 9.970481 | 7 | 50 | |
| | 20 | 9.505732 | 62 | 9.529257 | 70 | 0.470743 | 9.970475 | 7 | 40 | |
| | 30 | 9.505794 | 63 | 9.529327 | 69 | 0.470673 | 9.970468 | 7 | 30 | |
| | 40 | 9.505857 | 62 | 9.529396 | 69 | 0.470604 | 9.970461 | 7 | 20 | |
| | 50 | 9.505919 | 62 | 9.529465 | 70 | 0.470535 | 9.970454 | 8 | 10 | |
| 42 | 0 | 9.505981 | 62 | 9.529535 | 69 | 0.470465 | 9.970446 | 7 | 0 | 18 |
| | 10 | 9.506043 | 63 | 9.529604 | 69 | 0.470396 | 9.970439 | 7 | 50 | |
| | 20 | 9.506106 | 62 | 9.529673 | 70 | 0.470327 | 9.970432 | 7 | 40 | |
| | 30 | 9.506168 | 62 | 9.529743 | 69 | 0.470257 | 9.970425 | 7 | 30 | |
| | 40 | 9.506230 | 62 | 9.529812 | 70 | 0.470188 | 9.970418 | 7 | 20 | |
| | 50 | 9.506292 | 62 | 9.529881 | 69 | 0.470119 | 9.970411 | 7 | 10 | |
| 43 | 0 | 9.506354 | 62 | 9.529951 | 69 | 0.470050 | 9.970404 | 8 | 0 | 17 |
| | 10 | 9.506416 | 62 | 9.530020 | 69 | 0.469981 | 9.970397 | 7 | 50 | |
| | 20 | 9.506478 | 63 | 9.530089 | 69 | 0.469911 | 9.970390 | 7 | 40 | |
| | 30 | 9.506541 | 62 | 9.530158 | 70 | 0.469842 | 9.970382 | 7 | 30 | |
| | 40 | 9.506603 | 62 | 9.530228 | 69 | 0.469772 | 9.970375 | 7 | 20 | |
| | 50 | 9.506665 | 62 | 9.530297 | 69 | 0.469703 | 9.970368 | 7 | 10 | |
| 44 | 0 | 9.506727 | 62 | 9.530366 | 69 | 0.469634 | 9.970361 | 7 | 0 | 16 |
| | 10 | 9.506789 | 62 | 9.530435 | 69 | 0.469565 | 9.970354 | 7 | 50 | |
| | 20 | 9.506851 | 62 | 9.530504 | 70 | 0.469496 | 9.970347 | 8 | 40 | |
| | 30 | 9.506913 | 62 | 9.530574 | 69 | 0.469426 | 9.970339 | 7 | 30 | |
| | 40 | 9.506975 | 62 | 9.530643 | 69 | 0.469357 | 9.970332 | 7 | 20 | |
| | 50 | 9.507037 | 62 | 9.530712 | 69 | 0.469288 | 9.970325 | 7 | 10 | |
| 45 | 0 | 9.507099 | 62 | 9.530781 | 69 | 0.469219 | 9.970318 | 7 | 0 | 15 |
| | 10 | 9.507161 | 62 | 9.530850 | 70 | 0.469150 | 9.970311 | 7 | 50 | |
| | 20 | 9.507223 | 62 | 9.530920 | 69 | 0.469080 | 9.970304 | 8 | 40 | |
| | 30 | 9.507285 | 62 | 9.530989 | 69 | 0.469011 | 9.970297 | 7 | 30 | |
| | 40 | 9.507347 | 62 | 9.531058 | 69 | 0.468942 | 9.970289 | 7 | 20 | |
| | 50 | 9.507409 | 62 | 9.531127 | 69 | 0.468873 | 9.970282 | 7 | 10 | |
| 46 | 0 | 9.507471 | 62 | 9.531196 | 69 | 0.468804 | 9.970275 | 7 | 0 | 14 |
| | 10 | 9.507533 | 62 | 9.531265 | 69 | 0.468735 | 9.970268 | 7 | 50 | |
| | 20 | 9.507595 | 62 | 9.531334 | 69 | 0.468666 | 9.970261 | 7 | 40 | |
| | 30 | 9.507657 | 62 | 9.531403 | 69 | 0.468597 | 9.970254 | 8 | 30 | |
| | 40 | 9.507719 | 62 | 9.531473 | 70 | 0.468528 | 9.970246 | 7 | 20 | |
| | 50 | 9.507781 | 62 | 9.531542 | 69 | 0.468459 | 9.970239 | 7 | 10 | |
| 47 | 0 | 9.507843 | 62 | 9.531611 | 69 | 0.468389 | 9.970232 | 7 | 0 | 13 |
| | 10 | 9.507905 | 62 | 9.531680 | 69 | 0.468320 | 9.970225 | 7 | 50 | |
| | 20 | 9.507967 | 61 | 9.531749 | 69 | 0.468251 | 9.970218 | 7 | 40 | |
| | 30 | 9.508028 | 62 | 9.531818 | 69 | 0.468182 | 9.970211 | 7 | 30 | |
| | 40 | 9.508090 | 62 | 9.531887 | 69 | 0.468113 | 9.970203 | 8 | 20 | |
| | 50 | 9.508152 | 62 | 9.531956 | 69 | 0.468044 | 9.970196 | 7 | 10 | |
| 48 | 0 | 9.508214 | 62 | 9.532025 | 69 | 0.467975 | 9.970189 | 7 | 0 | 12 |
| | 10 | 9.508276 | 62 | 9.532094 | 69 | 0.467906 | 9.970182 | 7 | 50 | |
| | 20 | 9.508338 | 62 | 9.532163 | 69 | 0.467837 | 9.970175 | 7 | 40 | |
| | 30 | 9.508400 | 62 | 9.532232 | 69 | 0.467768 | 9.970168 | 7 | 30 | |
| | 40 | 9.508461 | 61 | 9.532301 | 69 | 0.467699 | 9.970160 | 8 | 20 | |
| | 50 | 9.508523 | 62 | 9.532370 | 69 | 0.467630 | 9.970153 | 7 | 10 | |
| 49 | 0 | 9.508585 | 62 | 9.532439 | 69 | 0.467561 | 9.970145 | 7 | 0 | 11 |
| | 10 | 9.508647 | 62 | 9.532508 | 69 | 0.467492 | 9.970138 | 7 | 50 | |
| | 20 | 9.508709 | 61 | 9.532577 | 69 | 0.467423 | 9.970132 | 7 | 40 | |
| | 30 | 9.508770 | 61 | 9.532646 | 69 | 0.467354 | 9.970125 | 7 | 30 | |
| | 40 | 9.508832 | 62 | 9.532715 | 69 | 0.467285 | 9.970117 | 8 | 20 | |
| | 50 | 9.508894 | 62 | 9.532784 | 69 | 0.467216 | 9.970110 | 7 | 10 | |
| 50 | 0 | 9.508956 | 62 | 9.532853 | 69 | 0.467147 | 9.970103 | 7 | 0 | 10 |
| | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.508956 | 61 | 9.532853 | 68 | 0.467147 | 9.976103 | 7 | 0 | 10 |
| | 10 | 9.509017 | 62 | 9.532921 | 69 | 0.467079 | 9.976096 | 7 | 50 | |
| | 20 | 9.509079 | 62 | 9.532990 | 69 | 0.467010 | 9.976089 | 7 | 40 | |
| | 30 | 9.509141 | 61 | 9.533059 | 69 | 0.466941 | 9.976081 | 7 | 30 | |
| | 40 | 9.509202 | 62 | 9.533128 | 69 | 0.466872 | 9.976074 | 7 | 20 | |
| | 50 | 9.509264 | 62 | 9.533197 | 69 | 0.466803 | 9.976067 | 7 | 10 | |
| 51 | 0 | 9.509326 | 61 | 9.533266 | 69 | 0.466734 | 9.976060 | 7 | 0 | 9 |
| | 10 | 9.509387 | 62 | 9.533335 | 69 | 0.466665 | 9.976053 | 7 | 50 | |
| | 20 | 9.509449 | 62 | 9.533404 | 68 | 0.466596 | 9.976046 | 7 | 40 | |
| | 30 | 9.509511 | 61 | 9.533472 | 69 | 0.466528 | 9.976038 | 7 | 30 | |
| | 40 | 9.509572 | 62 | 9.533541 | 69 | 0.466459 | 9.976031 | 7 | 20 | |
| | 50 | 9.509634 | 62 | 9.533610 | 69 | 0.466390 | 9.976024 | 7 | 10 | |
| 52 | 0 | 9.509696 | 61 | 9.533679 | 69 | 0.466321 | 9.976017 | 7 | 0 | 8 |
| | 10 | 9.509757 | 62 | 9.533748 | 68 | 0.466252 | 9.976010 | 7 | 50 | |
| | 20 | 9.509819 | 61 | 9.533816 | 69 | 0.466184 | 9.976002 | 7 | 40 | |
| | 30 | 9.509880 | 62 | 9.533885 | 69 | 0.466115 | 9.975995 | 7 | 30 | |
| | 40 | 9.509942 | 62 | 9.533954 | 69 | 0.466046 | 9.975988 | 7 | 20 | |
| | 50 | 9.510004 | 61 | 9.534023 | 69 | 0.465977 | 9.975981 | 7 | 10 | |
| 53 | 0 | 9.510065 | 62 | 9.534092 | 68 | 0.465908 | 9.975974 | 7 | 0 | 7 |
| | 10 | 9.510127 | 61 | 9.534160 | 69 | 0.465840 | 9.975966 | 7 | 50 | |
| | 20 | 9.510188 | 62 | 9.534229 | 69 | 0.465771 | 9.975959 | 7 | 40 | |
| | 30 | 9.510250 | 61 | 9.534298 | 69 | 0.465702 | 9.975952 | 7 | 30 | |
| | 40 | 9.510311 | 62 | 9.534367 | 68 | 0.465633 | 9.975945 | 7 | 20 | |
| | 50 | 9.510373 | 61 | 9.534435 | 69 | 0.465565 | 9.975938 | 7 | 10 | |
| 54 | 0 | 9.510434 | 62 | 9.534504 | 69 | 0.465496 | 9.975930 | 7 | 0 | 6 |
| | 10 | 9.510496 | 61 | 9.534573 | 68 | 0.465427 | 9.975923 | 7 | 50 | |
| | 20 | 9.510557 | 62 | 9.534641 | 69 | 0.465359 | 9.975916 | 7 | 40 | |
| | 30 | 9.510619 | 61 | 9.534710 | 69 | 0.465290 | 9.975909 | 7 | 30 | |
| | 40 | 9.510680 | 62 | 9.534779 | 68 | 0.465221 | 9.975901 | 7 | 20 | |
| | 50 | 9.510742 | 61 | 9.534847 | 69 | 0.465153 | 9.975894 | 7 | 10 | |
| 55 | 0 | 9.510803 | 62 | 9.534916 | 69 | 0.465084 | 9.975887 | 7 | 0 | 5 |
| | 10 | 9.510865 | 61 | 9.534985 | 68 | 0.465015 | 9.975880 | 7 | 50 | * |
| | 20 | 9.510926 | 61 | 9.535053 | 69 | 0.464947 | 9.975873 | 7 | 40 | |
| | 30 | 9.510987 | 62 | 9.535122 | 69 | 0.464878 | 9.975865 | 7 | 30 | |
| | 40 | 9.511049 | 61 | 9.535191 | 68 | 0.464809 | 9.975858 | 7 | 20 | |
| | 50 | 9.511110 | 62 | 9.535259 | 69 | 0.464741 | 9.975851 | 7 | 10 | |
| 56 | 0 | 9.511172 | 61 | 9.535328 | 68 | 0.464672 | 9.975844 | 7 | 0 | 4 |
| | 10 | 9.511233 | 61 | 9.535396 | 69 | 0.464604 | 9.975837 | 7 | 50 | |
| | 20 | 9.511294 | 62 | 9.535465 | 69 | 0.464535 | 9.975829 | 7 | 40 | |
| | 30 | 9.511356 | 61 | 9.535534 | 68 | 0.464466 | 9.975822 | 7 | 30 | |
| | 40 | 9.511417 | 61 | 9.535602 | 69 | 0.464398 | 9.975815 | 7 | 20 | |
| | 50 | 9.511478 | 62 | 9.535671 | 68 | 0.464329 | 9.975808 | 7 | 10 | |
| 57 | 0 | 9.511540 | 61 | 9.535739 | 69 | 0.464261 | 9.975800 | 7 | 0 | 3 |
| | 10 | 9.511601 | 61 | 9.535808 | 68 | 0.464192 | 9.975793 | 7 | 50 | |
| | 20 | 9.511662 | 62 | 9.535876 | 69 | 0.464124 | 9.975786 | 7 | 40 | |
| | 30 | 9.511724 | 61 | 9.535945 | 68 | 0.464055 | 9.975779 | 7 | 30 | |
| | 40 | 9.511785 | 61 | 9.536013 | 69 | 0.463987 | 9.975771 | 7 | 20 | |
| | 50 | 9.511846 | 61 | 9.536082 | 68 | 0.463918 | 9.975764 | 7 | 10 | |
| 58 | 0 | 9.511907 | 62 | 9.536150 | 69 | 0.463850 | 9.975757 | 7 | 0 | 2 |
| | 10 | 9.511969 | 61 | 9.536219 | 68 | 0.463781 | 9.975750 | 7 | 50 | |
| | 20 | 9.512030 | 61 | 9.536287 | 69 | 0.463713 | 9.975743 | 7 | 40 | |
| | 30 | 9.512091 | 61 | 9.536356 | 68 | 0.463644 | 9.975735 | 7 | 30 | |
| | 40 | 9.512152 | 62 | 9.536424 | 69 | 0.463576 | 9.975728 | 7 | 20 | |
| | 50 | 9.512214 | 61 | 9.536493 | 68 | 0.463507 | 9.975721 | 7 | 10 | |
| 59 | 0 | 9.512275 | 61 | 9.536561 | 69 | 0.463439 | 9.975714 | 7 | 0 | 1 |
| | 10 | 9.512336 | 61 | 9.536630 | 68 | 0.463370 | 9.975706 | 7 | 50 | |
| | 20 | 9.512397 | 61 | 9.536698 | 68 | 0.463302 | 9.975699 | 7 | 40 | |
| | 30 | 9.512458 | 62 | 9.536767 | 68 | 0.463233 | 9.975692 | 7 | 30 | |
| | 40 | 9.512520 | 61 | 9.536835 | 69 | 0.463165 | 9.975685 | 7 | 20 | |
| | 50 | 9.512581 | 61 | 9.536903 | 68 | 0.463097 | 9.975677 | 7 | 10 | |
| 60 | 0 | 9.512642 | 61 | 9.536972 | 69 | 0.463028 | 9.975670 | 7 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.512642 | 61 | 9.536972 | 68 | 0.463028 | 9.975670 | 7 | 0 | 60 |
| | 10 | 9.512703 | 61 | 9.537040 | 69 | 0.462960 | 9.975663 | 7 | 50 | |
| | 20 | 9.512764 | 61 | 9.537109 | 68 | 0.462891 | 9.975656 | 7 | 40 | |
| | 30 | 9.512825 | 61 | 9.537177 | 68 | 0.462823 | 9.975648 | 7 | 30 | |
| | 40 | 9.512886 | 62 | 9.537245 | 69 | 0.462755 | 9.975641 | 7 | 20 | |
| | 50 | 9.512948 | 61 | 9.537314 | 68 | 0.462686 | 9.975634 | 7 | 10 | |
| 1 | 0 | 9.513009 | 61 | 9.537382 | 68 | 0.462618 | 9.975627 | 7 | 0 | 59 |
| | 10 | 9.513070 | 61 | 9.537450 | 69 | 0.462550 | 9.975619 | 7 | 50 | |
| | 20 | 9.513131 | 61 | 9.537519 | 68 | 0.462481 | 9.975612 | 7 | 40 | |
| | 30 | 9.513192 | 61 | 9.537587 | 68 | 0.462413 | 9.975605 | 7 | 30 | |
| | 40 | 9.513253 | 61 | 9.537655 | 69 | 0.462345 | 9.975598 | 7 | 20 | |
| | 50 | 9.513314 | 61 | 9.537724 | 68 | 0.462276 | 9.975591 | 7 | 10 | |
| 2 | 0 | 9.513375 | 61 | 9.537792 | 68 | 0.462208 | 9.975584 | 7 | 0 | 58 |
| | 10 | 9.513436 | 61 | 9.537860 | 69 | 0.462140 | 9.975576 | 7 | 50 | |
| | 20 | 9.513497 | 61 | 9.537929 | 68 | 0.462071 | 9.975568 | 7 | 40 | |
| | 30 | 9.513558 | 61 | 9.537997 | 68 | 0.462003 | 9.975561 | 7 | 30 | |
| | 40 | 9.513619 | 61 | 9.538065 | 68 | 0.461935 | 9.975554 | 7 | 20 | |
| | 50 | 9.513680 | 61 | 9.538133 | 69 | 0.461867 | 9.975547 | 7 | 10 | |
| 3 | 0 | 9.513741 | 61 | 9.538202 | 68 | 0.461798 | 9.975539 | 7 | 0 | 57 |
| | 10 | 9.513802 | 61 | 9.538270 | 68 | 0.461730 | 9.975532 | 7 | 50 | |
| | 20 | 9.513863 | 61 | 9.538338 | 68 | 0.461662 | 9.975525 | 7 | 40 | |
| | 30 | 9.513924 | 61 | 9.538406 | 68 | 0.461594 | 9.975518 | 7 | 30 | |
| | 40 | 9.513985 | 61 | 9.538475 | 69 | 0.461525 | 9.975510 | 7 | 20 | |
| | 50 | 9.514046 | 61 | 9.538543 | 68 | 0.461457 | 9.975503 | 7 | 10 | |
| 4 | 0 | 9.514107 | 61 | 9.538611 | 68 | 0.461389 | 9.975496 | 7 | 0 | 56 |
| | 10 | 9.514168 | 61 | 9.538679 | 68 | 0.461321 | 9.975488 | 7 | 50 | |
| | 20 | 9.514229 | 60 | 9.538747 | 69 | 0.461253 | 9.975481 | 7 | 40 | |
| | 30 | 9.514289 | 61 | 9.538816 | 68 | 0.461184 | 9.975474 | 7 | 30 | |
| | 40 | 9.514350 | 61 | 9.538884 | 68 | 0.461116 | 9.975467 | 7 | 20 | |
| | 50 | 9.514411 | 61 | 9.538952 | 68 | 0.461048 | 9.975459 | 7 | 10 | |
| 5 | 0 | 9.514472 | 61 | 9.539020 | 68 | 0.460980 | 9.975452 | 7 | 0 | 55 |
| | 10 | 9.514533 | 61 | 9.539088 | 68 | 0.460912 | 9.975445 | 7 | 50 | |
| | 20 | 9.514594 | 61 | 9.539156 | 68 | 0.460844 | 9.975437 | 7 | 40 | |
| | 30 | 9.514655 | 60 | 9.539224 | 69 | 0.460776 | 9.975430 | 7 | 30 | |
| | 40 | 9.514715 | 61 | 9.539293 | 68 | 0.460707 | 9.975423 | 7 | 20 | |
| | 50 | 9.514776 | 61 | 9.539361 | 68 | 0.460639 | 9.975416 | 7 | 10 | |
| 6 | 0 | 9.514837 | 61 | 9.539429 | 68 | 0.460571 | 9.975408 | 7 | 0 | 54 |
| | 10 | 9.514898 | 61 | 9.539497 | 68 | 0.460503 | 9.975401 | 7 | 50 | |
| | 20 | 9.514959 | 60 | 9.539565 | 68 | 0.460435 | 9.975394 | 7 | 40 | |
| | 30 | 9.515019 | 61 | 9.539633 | 68 | 0.460367 | 9.975387 | 7 | 30 | |
| | 40 | 9.515080 | 61 | 9.539701 | 68 | 0.460299 | 9.975379 | 7 | 20 | |
| | 50 | 9.515141 | 61 | 9.539769 | 68 | 0.460231 | 9.975372 | 7 | 10 | |
| 7 | 0 | 9.515202 | 60 | 9.539837 | 68 | 0.460163 | 9.975365 | 7 | 0 | 53 |
| | 10 | 9.515262 | 61 | 9.539905 | 68 | 0.460095 | 9.975357 | 7 | 50 | |
| | 20 | 9.515323 | 61 | 9.539973 | 68 | 0.460027 | 9.975350 | 7 | 40 | |
| | 30 | 9.515384 | 61 | 9.540041 | 68 | 0.459959 | 9.975343 | 7 | 30 | |
| | 40 | 9.515445 | 60 | 9.540109 | 68 | 0.459891 | 9.975335 | 7 | 20 | |
| | 50 | 9.515505 | 61 | 9.540177 | 68 | 0.459823 | 9.975328 | 7 | 10 | |
| 8 | 0 | 9.515566 | 61 | 9.540245 | 68 | 0.459755 | 9.975321 | 7 | 0 | 52 |
| | 10 | 9.515627 | 60 | 9.540313 | 68 | 0.459687 | 9.975313 | 7 | 50 | |
| | 20 | 9.515687 | 61 | 9.540381 | 68 | 0.459619 | 9.975306 | 7 | 40 | |
| | 30 | 9.515748 | 61 | 9.540449 | 68 | 0.459551 | 9.975299 | 7 | 30 | |
| | 40 | 9.515809 | 60 | 9.540517 | 68 | 0.459483 | 9.975292 | 7 | 20 | |
| | 50 | 9.515869 | 61 | 9.540585 | 68 | 0.459415 | 9.975284 | 7 | 10 | |
| 9 | 0 | 9.515930 | 61 | 9.540653 | 68 | 0.459347 | 9.975277 | 7 | 0 | 51 |
| | 10 | 9.515991 | 60 | 9.540721 | 68 | 0.459279 | 9.975270 | 7 | 50 | |
| | 20 | 9.516051 | 61 | 9.540789 | 68 | 0.459211 | 9.975262 | 7 | 40 | |
| | 30 | 9.516112 | 60 | 9.540857 | 68 | 0.459143 | 9.975255 | 7 | 30 | |
| | 40 | 9.516172 | 61 | 9.540925 | 68 | 0.459075 | 9.975248 | 7 | 20 | |
| | 50 | 9.516233 | 61 | 9.540993 | 68 | 0.459007 | 9.975241 | 7 | 10 | |
| 10 | 0 | 9.516294 | 61 | 9.541061 | 68 | 0.458939 | 9.975233 | 7 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.516294 | 60 | 9.541061 | 67 | 0.458030 | 9.975237 | 7 | 0 | 50 |
| | 10 | 9.516354 | 61 | 9.541128 | 68 | 0.458872 | 9.975220 | 8 | 50 | |
| | 20 | 9.516415 | 60 | 9.541196 | 68 | 0.458804 | 9.975218 | 7 | 40 | |
| | 30 | 9.516475 | 61 | 9.541264 | 68 | 0.458736 | 9.975211 | 7 | 30 | |
| | 40 | 9.516536 | 60 | 9.541332 | 68 | 0.458668 | 9.975204 | 7 | 20 | |
| | 50 | 9.516596 | 61 | 9.541400 | 68 | 0.458600 | 9.975196 | 8 | 10 | |
| 11 | 0 | 9.516657 | 60 | 9.541468 | 68 | 0.458532 | 9.975189 | 7 | 0 | 49 |
| | 10 | 9.516717 | 61 | 9.541536 | 67 | 0.458464 | 9.975182 | 8 | 50 | |
| | 20 | 9.516778 | 60 | 9.541603 | 68 | 0.458397 | 9.975174 | 7 | 40 | |
| | 30 | 9.516838 | 61 | 9.541671 | 68 | 0.458329 | 9.975167 | 7 | 30 | |
| | 40 | 9.516899 | 60 | 9.541739 | 68 | 0.458261 | 9.975160 | 7 | 20 | |
| | 50 | 9.516959 | 61 | 9.541807 | 68 | 0.458193 | 9.975152 | 8 | 10 | |
| 12 | 0 | 9.517020 | 60 | 9.541875 | 68 | 0.458125 | 9.975145 | 7 | 0 | 48 |
| | 10 | 9.517080 | 61 | 9.541943 | 67 | 0.458057 | 9.975138 | 8 | 50 | |
| | 20 | 9.517141 | 60 | 9.542010 | 68 | 0.457990 | 9.975130 | 7 | 40 | |
| | 30 | 9.517201 | 61 | 9.542078 | 68 | 0.457922 | 9.975123 | 7 | 30 | |
| | 40 | 9.517262 | 60 | 9.542146 | 68 | 0.457854 | 9.975116 | 7 | 20 | |
| | 50 | 9.517322 | 60 | 9.542214 | 67 | 0.457786 | 9.975108 | 8 | 10 | |
| 13 | 0 | 9.517382 | 61 | 9.542281 | 68 | 0.457719 | 9.975101 | 7 | 0 | 47 |
| | 10 | 9.517443 | 60 | 9.542349 | 68 | 0.457651 | 9.975094 | 8 | 50 | |
| | 20 | 9.517503 | 61 | 9.542417 | 68 | 0.457583 | 9.975086 | 7 | 40 | |
| | 30 | 9.517564 | 60 | 9.542485 | 67 | 0.457515 | 9.975079 | 7 | 30 | |
| | 40 | 9.517624 | 60 | 9.542552 | 68 | 0.457448 | 9.975072 | 8 | 20 | |
| | 50 | 9.517684 | 61 | 9.542620 | 68 | 0.457380 | 9.975064 | 8 | 10 | |
| 14 | 0 | 9.517745 | 60 | 9.542688 | 67 | 0.457312 | 9.975057 | 7 | 0 | 46 |
| | 10 | 9.517805 | 60 | 9.542755 | 68 | 0.457245 | 9.975050 | 8 | 50 | |
| | 20 | 9.517865 | 61 | 9.542823 | 68 | 0.457177 | 9.975042 | 8 | 40 | |
| | 30 | 9.517926 | 60 | 9.542891 | 67 | 0.457109 | 9.975035 | 7 | 30 | |
| | 40 | 9.517986 | 60 | 9.542958 | 68 | 0.457042 | 9.975028 | 8 | 20 | |
| | 50 | 9.518046 | 61 | 9.543026 | 68 | 0.456974 | 9.975020 | 7 | 10 | |
| 15 | 0 | 9.518107 | 60 | 9.543094 | 67 | 0.456906 | 9.975013 | 7 | 0 | 45 |
| | 10 | 9.518167 | 60 | 9.543161 | 68 | 0.456839 | 9.975006 | 8 | 50 | |
| | 20 | 9.518227 | 60 | 9.543229 | 68 | 0.456771 | 9.974998 | 7 | 40 | |
| | 30 | 9.518287 | 61 | 9.543297 | 67 | 0.456703 | 9.974991 | 7 | 30 | |
| | 40 | 9.518348 | 60 | 9.543364 | 68 | 0.456636 | 9.974984 | 8 | 20 | |
| | 50 | 9.518408 | 60 | 9.543432 | 67 | 0.456568 | 9.974976 | 8 | 10 | |
| 16 | 0 | 9.518468 | 60 | 9.543499 | 68 | 0.456501 | 9.974969 | 7 | 0 | 44 |
| | 10 | 9.518528 | 61 | 9.543567 | 68 | 0.456433 | 9.974961 | 8 | 50 | |
| | 20 | 9.518589 | 60 | 9.543635 | 67 | 0.456365 | 9.974954 | 7 | 40 | |
| | 30 | 9.518649 | 60 | 9.543702 | 68 | 0.456298 | 9.974947 | 8 | 30 | |
| | 40 | 9.518709 | 60 | 9.543770 | 67 | 0.456230 | 9.974939 | 7 | 20 | |
| | 50 | 9.518769 | 60 | 9.543837 | 68 | 0.456163 | 9.974932 | 7 | 10 | |
| 17 | 0 | 9.518829 | 61 | 9.543905 | 67 | 0.456095 | 9.974925 | 8 | 0 | 43 |
| | 10 | 9.518890 | 60 | 9.543972 | 68 | 0.456028 | 9.974917 | 7 | 50 | |
| | 20 | 9.518950 | 60 | 9.544040 | 67 | 0.455960 | 9.974910 | 7 | 40 | |
| | 30 | 9.519010 | 60 | 9.544107 | 68 | 0.455893 | 9.974903 | 8 | 30 | |
| | 40 | 9.519070 | 60 | 9.544175 | 68 | 0.455825 | 9.974895 | 7 | 20 | |
| | 50 | 9.519130 | 60 | 9.544242 | 67 | 0.455758 | 9.974888 | 8 | 10 | |
| 18 | 0 | 9.519190 | 60 | 9.544310 | 67 | 0.455690 | 9.974880 | 7 | 0 | 42 |
| | 10 | 9.519250 | 61 | 9.544377 | 68 | 0.455623 | 9.974872 | 8 | 50 | |
| | 20 | 9.519311 | 60 | 9.544445 | 67 | 0.455555 | 9.974866 | 7 | 40 | |
| | 30 | 9.519371 | 60 | 9.544512 | 68 | 0.455488 | 9.974858 | 8 | 30 | |
| | 40 | 9.519431 | 60 | 9.544580 | 67 | 0.455420 | 9.974851 | 7 | 20 | |
| | 50 | 9.519491 | 60 | 9.544647 | 68 | 0.455353 | 9.974844 | 8 | 10 | |
| 19 | 0 | 9.519551 | 60 | 9.544715 | 67 | 0.455285 | 9.974836 | 7 | 0 | 41 |
| | 10 | 9.519611 | 60 | 9.544782 | 68 | 0.455218 | 9.974829 | 8 | 50 | |
| | 20 | 9.519671 | 60 | 9.544850 | 67 | 0.455150 | 9.974821 | 7 | 40 | |
| | 30 | 9.519731 | 60 | 9.544917 | 68 | 0.455083 | 9.974814 | 8 | 30 | |
| | 40 | 9.519791 | 60 | 9.544985 | 67 | 0.455015 | 9.974807 | 7 | 20 | |
| | 50 | 9.519851 | 60 | 9.545052 | 67 | 0.454948 | 9.974799 | 8 | 10 | |
| 20 | 0 | 9.519911 | 60 | 9.545119 | 67 | 0.454881 | 9.974792 | 7 | 0 | 40 |
| | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | |

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| | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | 9.519911 | 60 | 9.545119 | 68 | 0.454881 | 9.974792 | 8 | 0 | 40 |
| | 10 | 9.519971 | 60 | 9.545187 | 67 | 0.454813 | 9.974784 | 7 | 50 | |
| | 20 | 9.520031 | 60 | 9.545254 | 67 | 0.454746 | 9.974777 | 7 | 40 | |
| | 30 | 9.520091 | 60 | 9.545322 | 68 | 0.454678 | 9.974770 | 8 | 30 | |
| | 40 | 9.520151 | 60 | 9.545389 | 67 | 0.454611 | 9.974762 | 7 | 20 | |
| | 50 | 9.520211 | 60 | 9.545456 | 68 | 0.454544 | 9.974755 | 7 | 10 | |
| 21 | 0 | 9.520271 | 60 | 9.545524 | 67 | 0.454477 | 9.974748 | 8 | 0 | 39 |
| | 10 | 9.520331 | 60 | 9.545591 | 67 | 0.454409 | 9.974740 | 7 | 50 | |
| | 20 | 9.520391 | 60 | 9.545658 | 67 | 0.454342 | 9.974733 | 8 | 40 | |
| | 30 | 9.520451 | 60 | 9.545726 | 68 | 0.454274 | 9.974725 | 7 | 30 | |
| | 40 | 9.520511 | 60 | 9.545793 | 67 | 0.454207 | 9.974718 | 7 | 20 | |
| | 50 | 9.520571 | 60 | 9.545860 | 68 | 0.454140 | 9.974711 | 8 | 10 | |
| 22 | 0 | 9.520631 | 60 | 9.545928 | 67 | 0.454072 | 9.974703 | 8 | 0 | 38 |
| | 10 | 9.520691 | 60 | 9.545995 | 67 | 0.454005 | 9.974696 | 7 | 50 | |
| | 20 | 9.520750 | 59 | 9.546062 | 67 | 0.453938 | 9.974688 | 8 | 40 | |
| | 30 | 9.520810 | 60 | 9.546129 | 67 | 0.453871 | 9.974681 | 7 | 30 | |
| | 40 | 9.520870 | 60 | 9.546197 | 67 | 0.453803 | 9.974674 | 8 | 20 | |
| | 50 | 9.520930 | 60 | 9.546264 | 67 | 0.453736 | 9.974666 | 8 | 10 | |
| 23 | 0 | 9.520990 | 60 | 9.546331 | 67 | 0.453669 | 9.974659 | 7 | 0 | 37 |
| | 10 | 9.521050 | 60 | 9.546398 | 67 | 0.453602 | 9.974651 | 8 | 50 | |
| | 20 | 9.521110 | 60 | 9.546466 | 68 | 0.453534 | 9.974644 | 7 | 40 | |
| | 30 | 9.521169 | 59 | 9.546533 | 67 | 0.453467 | 9.974636 | 8 | 30 | |
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| 24 | 0 | 9.521349 | 60 | 9.546735 | 68 | 0.453265 | 9.974614 | 8 | 0 | 36 |
| | 10 | 9.521409 | 60 | 9.546802 | 67 | 0.453198 | 9.974607 | 7 | 50 | |
| | 20 | 9.521468 | 59 | 9.546869 | 67 | 0.453131 | 9.974599 | 8 | 40 | |
| | 30 | 9.521528 | 60 | 9.546936 | 67 | 0.453064 | 9.974592 | 7 | 30 | |
| | 40 | 9.521588 | 60 | 9.547003 | 68 | 0.452997 | 9.974585 | 8 | 20 | |
| | 50 | 9.521648 | 60 | 9.547071 | 67 | 0.452929 | 9.974577 | 8 | 10 | |
| 25 | 0 | 9.521707 | 59 | 9.547138 | 67 | 0.452862 | 9.974570 | 7 | 0 | 35 |
| | 10 | 9.521767 | 60 | 9.547205 | 67 | 0.452795 | 9.974562 | 8 | 50 | |
| | 20 | 9.521827 | 60 | 9.547272 | 67 | 0.452728 | 9.974555 | 7 | 40 | |
| | 30 | 9.521887 | 60 | 9.547339 | 67 | 0.452661 | 9.974547 | 8 | 30 | |
| | 40 | 9.521946 | 59 | 9.547406 | 67 | 0.452594 | 9.974540 | 7 | 20 | |
| | 50 | 9.522006 | 60 | 9.547473 | 67 | 0.452527 | 9.974533 | 8 | 10 | |
| 26 | 0 | 9.522066 | 60 | 9.547540 | 68 | 0.452460 | 9.974525 | 8 | 0 | 34 |
| | 10 | 9.522125 | 59 | 9.547608 | 67 | 0.452392 | 9.974518 | 7 | 50 | |
| | 20 | 9.522185 | 60 | 9.547675 | 67 | 0.452325 | 9.974510 | 8 | 40 | |
| | 30 | 9.522245 | 60 | 9.547742 | 67 | 0.452258 | 9.974503 | 7 | 30 | |
| | 40 | 9.522304 | 59 | 9.547809 | 67 | 0.452191 | 9.974495 | 8 | 20 | |
| | 50 | 9.522364 | 60 | 9.547876 | 67 | 0.452124 | 9.974488 | 7 | 10 | |
| 27 | 0 | 9.522424 | 60 | 9.547943 | 67 | 0.452057 | 9.974481 | 8 | 0 | 33 |
| | 10 | 9.522483 | 59 | 9.548010 | 67 | 0.451990 | 9.974473 | 7 | 50 | |
| | 20 | 9.522543 | 60 | 9.548077 | 67 | 0.451923 | 9.974466 | 8 | 40 | |
| | 30 | 9.522602 | 59 | 9.548144 | 67 | 0.451856 | 9.974458 | 7 | 30 | |
| | 40 | 9.522662 | 60 | 9.548211 | 67 | 0.451789 | 9.974451 | 8 | 20 | |
| | 50 | 9.522722 | 60 | 9.548278 | 67 | 0.451722 | 9.974443 | 7 | 10 | |
| 28 | 0 | 9.522781 | 59 | 9.548345 | 67 | 0.451655 | 9.974436 | 8 | 0 | 32 |
| | 10 | 9.522841 | 60 | 9.548412 | 67 | 0.451588 | 9.974428 | 7 | 50 | |
| | 20 | 9.522900 | 59 | 9.548479 | 67 | 0.451521 | 9.974421 | 8 | 40 | |
| | 30 | 9.522960 | 60 | 9.548546 | 67 | 0.451454 | 9.974414 | 7 | 30 | |
| | 40 | 9.523019 | 59 | 9.548613 | 67 | 0.451387 | 9.974406 | 8 | 20 | |
| | 50 | 9.523079 | 60 | 9.548680 | 67 | 0.451320 | 9.974399 | 7 | 10 | |
| 29 | 0 | 9.523138 | 59 | 9.548747 | 67 | 0.451253 | 9.974392 | 8 | 0 | 31 |
| | 10 | 9.523198 | 60 | 9.548814 | 67 | 0.451186 | 9.974384 | 7 | 50 | |
| | 20 | 9.523257 | 59 | 9.548881 | 67 | 0.451119 | 9.974376 | 8 | 40 | |
| | 30 | 9.523317 | 60 | 9.548948 | 67 | 0.451052 | 9.974369 | 7 | 30 | |
| | 40 | 9.523376 | 59 | 9.549015 | 67 | 0.450985 | 9.974361 | 8 | 20 | |
| | 50 | 9.523436 | 60 | 9.549082 | 67 | 0.450918 | 9.974354 | 7 | 10 | |
| 30 | 0 | 9.523495 | 59 | 9.549149 | 67 | 0.450851 | 9.974347 | 8 | 0 | 30 |
| | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.523495 | 60 | 9.549149 | 67 | 0.450851 | 9.974347 | 8 | 0 | 30 |
| | 10 | 9.523555 | 59 | 9.549216 | 67 | 0.450784 | 9.974339 | 7 | 50 | |
| | 20 | 9.523614 | 60 | 9.549283 | 66 | 0.450717 | 9.974332 | 7 | 40 | |
| | 30 | 9.523674 | 59 | 9.549349 | 67 | 0.450651 | 9.974324 | 7 | 30 | |
| | 40 | 9.523733 | 59 | 9.549416 | 67 | 0.450584 | 9.974317 | 7 | 20 | |
| | 50 | 9.523792 | 60 | 9.549483 | 67 | 0.450517 | 9.974309 | 7 | 10 | |
| 31 | 0 | 9.523852 | 59 | 9.549550 | 67 | 0.450450 | 9.974302 | 7 | 0 | 29 |
| | 10 | 9.523911 | 60 | 9.549617 | 67 | 0.450383 | 9.974294 | 8 | 50 | |
| | 20 | 9.523971 | 59 | 9.549684 | 67 | 0.450316 | 9.974287 | 8 | 40 | |
| | 30 | 9.524030 | 59 | 9.549751 | 66 | 0.450249 | 9.974279 | 8 | 30 | |
| | 40 | 9.524089 | 60 | 9.549817 | 67 | 0.450183 | 9.974272 | 8 | 20 | |
| | 50 | 9.524149 | 59 | 9.549884 | 67 | 0.450116 | 9.974264 | 7 | 10 | |
| 32 | 0 | 9.524208 | 59 | 9.549951 | 67 | 0.450049 | 9.974257 | 7 | 0 | 28 |
| | 10 | 9.524267 | 60 | 9.550018 | 67 | 0.449982 | 9.974250 | 8 | 50 | |
| | 20 | 9.524327 | 59 | 9.550085 | 67 | 0.449915 | 9.974242 | 8 | 40 | |
| | 30 | 9.524386 | 59 | 9.550152 | 66 | 0.449848 | 9.974235 | 7 | 30 | |
| | 40 | 9.524445 | 60 | 9.550218 | 67 | 0.449782 | 9.974227 | 8 | 20 | |
| | 50 | 9.524505 | 59 | 9.550285 | 67 | 0.449715 | 9.974220 | 8 | 10 | |
| 33 | 0 | 9.524564 | 59 | 9.550352 | 67 | 0.449648 | 9.974212 | 8 | 0 | 27 |
| | 10 | 9.524623 | 60 | 9.550419 | 66 | 0.449581 | 9.974205 | 7 | 50 | |
| | 20 | 9.524683 | 59 | 9.550485 | 67 | 0.449515 | 9.974197 | 8 | 40 | |
| | 30 | 9.524742 | 59 | 9.550552 | 67 | 0.449448 | 9.974190 | 7 | 30 | |
| | 40 | 9.524801 | 59 | 9.550619 | 67 | 0.449381 | 9.974182 | 8 | 20 | |
| | 50 | 9.524860 | 60 | 9.550686 | 66 | 0.449314 | 9.974175 | 8 | 10 | |
| 34 | 0 | 9.524920 | 59 | 9.550752 | 67 | 0.449247 | 9.974167 | 8 | 0 | 26 |
| | 10 | 9.524979 | 59 | 9.550819 | 67 | 0.449181 | 9.974160 | 7 | 50 | |
| | 20 | 9.525038 | 59 | 9.550886 | 66 | 0.449114 | 9.974152 | 8 | 40 | |
| | 30 | 9.525097 | 59 | 9.550952 | 67 | 0.449048 | 9.974145 | 7 | 30 | |
| | 40 | 9.525156 | 60 | 9.551019 | 67 | 0.448981 | 9.974137 | 8 | 20 | |
| | 50 | 9.525216 | 59 | 9.551086 | 67 | 0.448914 | 9.974130 | 8 | 10 | |
| 35 | 0 | 9.525275 | 59 | 9.551153 | 66 | 0.448847 | 9.974122 | 7 | 0 | 25 |
| | 10 | 9.525334 | 59 | 9.551219 | 67 | 0.448781 | 9.974115 | 8 | 50 | |
| | 20 | 9.525393 | 59 | 9.551286 | 67 | 0.448714 | 9.974107 | 8 | 40 | |
| | 30 | 9.525452 | 60 | 9.551353 | 66 | 0.448647 | 9.974100 | 8 | 30 | |
| | 40 | 9.525512 | 59 | 9.551419 | 67 | 0.448581 | 9.974092 | 8 | 20 | |
| | 50 | 9.525571 | 59 | 9.551486 | 66 | 0.448514 | 9.974085 | 7 | 10 | |
| 36 | 0 | 9.525630 | 59 | 9.551552 | 67 | 0.448448 | 9.974077 | 7 | 0 | 24 |
| | 10 | 9.525689 | 59 | 9.551619 | 67 | 0.448381 | 9.974070 | 8 | 50 | |
| | 20 | 9.525748 | 59 | 9.551686 | 66 | 0.448314 | 9.974062 | 8 | 40 | |
| | 30 | 9.525807 | 59 | 9.551752 | 67 | 0.448248 | 9.974055 | 8 | 30 | |
| | 40 | 9.525866 | 59 | 9.551819 | 67 | 0.448181 | 9.974047 | 8 | 20 | |
| | 50 | 9.525925 | 59 | 9.551885 | 66 | 0.448115 | 9.974040 | 7 | 10 | |
| 37 | 0 | 9.525984 | 60 | 9.551952 | 67 | 0.448048 | 9.974032 | 7 | 0 | 23 |
| | 10 | 9.526044 | 59 | 9.552019 | 66 | 0.447981 | 9.974025 | 8 | 50 | |
| | 20 | 9.526103 | 59 | 9.552085 | 67 | 0.447915 | 9.974017 | 8 | 40 | |
| | 30 | 9.526162 | 59 | 9.552152 | 67 | 0.447848 | 9.974010 | 8 | 30 | |
| | 40 | 9.526221 | 59 | 9.552218 | 66 | 0.447782 | 9.974002 | 8 | 20 | |
| | 50 | 9.526280 | 59 | 9.552285 | 66 | 0.447715 | 9.973995 | 7 | 10 | |
| 38 | 0 | 9.526339 | 59 | 9.552351 | 67 | 0.447648 | 9.973987 | 7 | 0 | 22 |
| | 10 | 9.526398 | 59 | 9.552418 | 66 | 0.447581 | 9.973980 | 8 | 50 | |
| | 20 | 9.526457 | 59 | 9.552484 | 67 | 0.447515 | 9.973972 | 8 | 40 | |
| | 30 | 9.526516 | 59 | 9.552551 | 66 | 0.447449 | 9.973965 | 8 | 30 | |
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| 39 | 0 | 9.526693 | 59 | 9.552750 | 67 | 0.447249 | 9.973942 | 7 | 0 | 21 |
| | 10 | 9.526752 | 59 | 9.552817 | 66 | 0.447183 | 9.973935 | 8 | 50 | |
| | 20 | 9.526811 | 59 | 9.552883 | 67 | 0.447117 | 9.973927 | 8 | 40 | |
| | 30 | 9.526870 | 58 | 9.552950 | 66 | 0.447050 | 9.973920 | 8 | 30 | |
| | 40 | 9.526928 | 59 | 9.553016 | 66 | 0.446984 | 9.973912 | 7 | 20 | |
| | 50 | 9.526987 | 59 | 9.553083 | 67 | 0.446917 | 9.973905 | 8 | 10 | |
| 40 | 0 | 9.527046 | 59 | 9.553149 | 66 | 0.446851 | 9.973897 | 8 | 0 | 20 |

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1 6.7
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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9.527046 | 59 | 9.553149 | 67 | 0.446851 | 9.973897 | 7 | 0 | 20 |
| | 10 | 9.527105 | 59 | 9.553216 | 66 | 0.446784 | 9.973890 | 8 | 50 | |
| | 20 | 9.527164 | 59 | 9.553282 | 66 | 0.446718 | 9.973882 | 7 | 40 | |
| | 30 | 9.527223 | 59 | 9.553348 | 67 | 0.446652 | 9.973875 | 8 | 30 | |
| | 40 | 9.527282 | 59 | 9.553415 | 66 | 0.446585 | 9.973867 | 8 | 20 | |
| | 50 | 9.527341 | 59 | 9.553481 | 66 | 0.446519 | 9.973859 | 7 | 10 | |
| 41 | 0 | 9.527400 | 59 | 9.553548 | 66 | 0.446452 | 9.973851 | 8 | 0 | 19 |
| | 10 | 9.527459 | 58 | 9.553614 | 66 | 0.446385 | 9.973843 | 7 | 50 | |
| | 20 | 9.527517 | 59 | 9.553680 | 67 | 0.446320 | 9.973837 | 8 | 40 | |
| | 30 | 9.527576 | 59 | 9.553747 | 66 | 0.446253 | 9.973829 | 7 | 30 | |
| | 40 | 9.527635 | 59 | 9.553813 | 67 | 0.446187 | 9.973822 | 8 | 20 | |
| | 50 | 9.527694 | 59 | 9.553880 | 66 | 0.446120 | 9.973814 | 7 | 10 | |
| 42 | 0 | 9.527753 | 58 | 9.553946 | 66 | 0.446053 | 9.973806 | 8 | 0 | 18 |
| | 10 | 9.527811 | 59 | 9.554012 | 67 | 0.445988 | 9.973799 | 7 | 50 | |
| | 20 | 9.527870 | 59 | 9.554079 | 66 | 0.445921 | 9.973792 | 8 | 40 | |
| | 30 | 9.527929 | 59 | 9.554145 | 66 | 0.445855 | 9.973784 | 7 | 30 | |
| | 40 | 9.527988 | 59 | 9.554211 | 67 | 0.445789 | 9.973777 | 8 | 20 | |
| | 50 | 9.528047 | 58 | 9.554278 | 66 | 0.445722 | 9.973769 | 7 | 10 | |
| 43 | 0 | 9.528105 | 59 | 9.554344 | 66 | 0.445656 | 9.973761 | 8 | 0 | 17 |
| | 10 | 9.528164 | 59 | 9.554410 | 66 | 0.445590 | 9.973754 | 7 | 50 | |
| | 20 | 9.528223 | 59 | 9.554476 | 67 | 0.445524 | 9.973746 | 8 | 40 | |
| | 30 | 9.528282 | 58 | 9.554543 | 66 | 0.445457 | 9.973739 | 7 | 30 | |
| | 40 | 9.528340 | 59 | 9.554609 | 66 | 0.445391 | 9.973731 | 8 | 20 | |
| | 50 | 9.528399 | 59 | 9.554675 | 66 | 0.445325 | 9.973724 | 7 | 10 | |
| 44 | 0 | 9.528458 | 58 | 9.554741 | 67 | 0.445259 | 9.973716 | 8 | 0 | 16 |
| | 10 | 9.528516 | 59 | 9.554808 | 66 | 0.445192 | 9.973709 | 7 | 50 | |
| | 20 | 9.528575 | 59 | 9.554874 | 66 | 0.445126 | 9.973701 | 8 | 40 | |
| | 30 | 9.528634 | 58 | 9.554940 | 66 | 0.445060 | 9.973694 | 7 | 30 | |
| | 40 | 9.528692 | 59 | 9.555006 | 67 | 0.444994 | 9.973686 | 8 | 20 | |
| | 50 | 9.528751 | 59 | 9.555073 | 66 | 0.444927 | 9.973678 | 7 | 10 | |
| 45 | 0 | 9.528810 | 58 | 9.555139 | 66 | 0.444861 | 9.973671 | 8 | 0 | 15 |
| | 10 | 9.528868 | 59 | 9.555205 | 66 | 0.444795 | 9.973663 | 7 | 50 | |
| | 20 | 9.528927 | 59 | 9.555271 | 66 | 0.444729 | 9.973656 | 8 | 40 | |
| | 30 | 9.528986 | 59 | 9.555337 | 67 | 0.444663 | 9.973648 | 7 | 30 | |
| | 40 | 9.529044 | 58 | 9.555404 | 66 | 0.444596 | 9.973641 | 8 | 20 | |
| | 50 | 9.529103 | 59 | 9.555470 | 66 | 0.444530 | 9.973633 | 7 | 10 | |
| 46 | 0 | 9.529161 | 59 | 9.555536 | 66 | 0.444464 | 9.973625 | 8 | 0 | 14 |
| | 10 | 9.529220 | 59 | 9.555602 | 66 | 0.444398 | 9.973618 | 7 | 50 | |
| | 20 | 9.529279 | 58 | 9.555668 | 66 | 0.444332 | 9.973610 | 8 | 40 | |
| | 30 | 9.529337 | 59 | 9.555734 | 66 | 0.444266 | 9.973603 | 7 | 30 | |
| | 40 | 9.529396 | 59 | 9.555800 | 67 | 0.444200 | 9.973595 | 8 | 20 | |
| | 50 | 9.529454 | 58 | 9.555867 | 66 | 0.444134 | 9.973588 | 7 | 10 | |
| 47 | 0 | 9.529513 | 59 | 9.555933 | 66 | 0.444067 | 9.973580 | 8 | 0 | 13 |
| | 10 | 9.529571 | 58 | 9.555999 | 66 | 0.444001 | 9.973572 | 7 | 50 | |
| | 20 | 9.529630 | 59 | 9.556065 | 66 | 0.443935 | 9.973565 | 8 | 40 | |
| | 30 | 9.529688 | 58 | 9.556131 | 66 | 0.443869 | 9.973557 | 7 | 30 | |
| | 40 | 9.529747 | 59 | 9.556197 | 66 | 0.443803 | 9.973550 | 8 | 20 | |
| | 50 | 9.529805 | 58 | 9.556263 | 66 | 0.443737 | 9.973542 | 7 | 10 | |
| 48 | 0 | 9.529864 | 58 | 9.556329 | 66 | 0.443671 | 9.973534 | 8 | 0 | 12 |
| | 10 | 9.529922 | 59 | 9.556395 | 66 | 0.443605 | 9.973526 | 7 | 50 | |
| | 20 | 9.529981 | 58 | 9.556461 | 66 | 0.443539 | 9.973519 | 8 | 40 | |
| | 30 | 9.530039 | 59 | 9.556527 | 66 | 0.443473 | 9.973512 | 7 | 30 | |
| | 40 | 9.530098 | 59 | 9.556593 | 66 | 0.443407 | 9.973504 | 8 | 20 | |
| | 50 | 9.530156 | 58 | 9.556659 | 66 | 0.443341 | 9.973497 | 7 | 10 | |
| 49 | 0 | 9.530215 | 59 | 9.556725 | 66 | 0.443275 | 9.973489 | 8 | 0 | 11 |
| | 10 | 9.530273 | 58 | 9.556791 | 66 | 0.443209 | 9.973482 | 7 | 50 | |
| | 20 | 9.530331 | 59 | 9.556857 | 66 | 0.443143 | 9.973474 | 8 | 40 | |
| | 30 | 9.530390 | 58 | 9.556923 | 66 | 0.443077 | 9.973466 | 7 | 30 | |
| | 40 | 9.530448 | 58 | 9.556989 | 66 | 0.443011 | 9.973459 | 8 | 20 | |
| | 50 | 9.530507 | 59 | 9.557055 | 66 | 0.442945 | 9.973451 | 7 | 10 | |
| 50 | 0 | 9.530565 | 58 | 9.557121 | 66 | 0.442879 | 9.973443 | 8 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.530565 | 58 | 9.557121 | 66 | 0.442879 | 9.973444 | 8 | 0 | 10 |
| | 10 | 9.530623 | 58 | 9.557187 | 66 | 0.442813 | 9.973436 | 8 | 50 | |
| | 20 | 9.530682 | 59 | 9.557253 | 66 | 0.442747 | 9.973428 | 8 | 40 | |
| | 30 | 9.530740 | 59 | 9.557319 | 66 | 0.442681 | 9.973421 | 7 | 30 | |
| | 40 | 9.530798 | 58 | 9.557385 | 66 | 0.442615 | 9.973413 | 8 | 20 | |
| | 50 | 9.530857 | 59 | 9.557451 | 66 | 0.442549 | 9.973406 | 7 | 10 | |
| 51 | 0 | 9.530915 | 58 | 9.557517 | 66 | 0.442483 | 9.973398 | 8 | 0 | |
| | 10 | 9.530973 | 58 | 9.557583 | 66 | 0.442417 | 9.973390 | 8 | 50 | |
| | 20 | 9.531032 | 59 | 9.557649 | 66 | 0.442351 | 9.973383 | 7 | 40 | |
| | 30 | 9.531090 | 58 | 9.557715 | 66 | 0.442285 | 9.973375 | 8 | 30 | |
| | 40 | 9.531148 | 59 | 9.557781 | 66 | 0.442219 | 9.973368 | 7 | 20 | |
| | 50 | 9.531207 | 58 | 9.557847 | 66 | 0.442153 | 9.973360 | 8 | 10 | |
| 52 | 0 | 9.531265 | 58 | 9.557913 | 65 | 0.442087 | 9.973352 | 8 | 0 | |
| | 10 | 9.531323 | 58 | 9.557978 | 66 | 0.442022 | 9.973345 | 7 | 50 | |
| | 20 | 9.531381 | 59 | 9.558044 | 66 | 0.441956 | 9.973337 | 8 | 40 | |
| | 30 | 9.531440 | 59 | 9.558110 | 66 | 0.441890 | 9.973330 | 7 | 30 | |
| | 40 | 9.531498 | 58 | 9.558176 | 66 | 0.441824 | 9.973322 | 8 | 20 | |
| | 50 | 9.531556 | 58 | 9.558242 | 66 | 0.441758 | 9.973314 | 8 | 10 | |
| 53 | 0 | 9.531614 | 58 | 9.558308 | 65 | 0.441692 | 9.973307 | 7 | 0 | |
| | 10 | 9.531673 | 59 | 9.558373 | 66 | 0.441627 | 9.973299 | 8 | 50 | |
| | 20 | 9.531731 | 58 | 9.558439 | 66 | 0.441561 | 9.973291 | 8 | 40 | |
| | 30 | 9.531789 | 58 | 9.558505 | 66 | 0.441495 | 9.973284 | 7 | 30 | |
| | 40 | 9.531847 | 58 | 9.558571 | 66 | 0.441429 | 9.973276 | 8 | 20 | |
| | 50 | 9.531905 | 58 | 9.558637 | 66 | 0.441363 | 9.973269 | 7 | 10 | |
| 54 | 0 | 9.531963 | 58 | 9.558703 | 65 | 0.441297 | 9.973261 | 8 | 0 | |
| | 10 | 9.532022 | 59 | 9.558768 | 66 | 0.441232 | 9.973253 | 8 | 50 | |
| | 20 | 9.532080 | 58 | 9.558834 | 66 | 0.441166 | 9.973246 | 7 | 40 | |
| | 30 | 9.532138 | 58 | 9.558900 | 66 | 0.441100 | 9.973238 | 8 | 30 | |
| | 40 | 9.532196 | 58 | 9.558966 | 65 | 0.441034 | 9.973230 | 8 | 20 | |
| | 50 | 9.532254 | 58 | 9.559031 | 66 | 0.440969 | 9.973223 | 7 | 10 | |
| 55 | 0 | 9.532312 | 58 | 9.559097 | 66 | 0.440903 | 9.973215 | 7 | 0 | |
| | 10 | 9.532370 | 58 | 9.559163 | 66 | 0.440837 | 9.973208 | 8 | 50 | |
| | 20 | 9.532428 | 58 | 9.559229 | 65 | 0.440771 | 9.973200 | 8 | 40 | |
| | 30 | 9.532487 | 59 | 9.559294 | 66 | 0.440706 | 9.973192 | 8 | 30 | |
| | 40 | 9.532545 | 58 | 9.559360 | 66 | 0.440640 | 9.973185 | 7 | 20 | |
| | 50 | 9.532603 | 58 | 9.559426 | 65 | 0.440574 | 9.973177 | 8 | 10 | |
| 56 | 0 | 9.532661 | 58 | 9.559491 | 66 | 0.440509 | 9.973169 | 7 | 0 | |
| | 10 | 9.532719 | 58 | 9.559557 | 66 | 0.440443 | 9.973162 | 8 | 50 | |
| | 20 | 9.532777 | 58 | 9.559623 | 65 | 0.440377 | 9.973154 | 8 | 40 | |
| | 30 | 9.532835 | 58 | 9.559688 | 66 | 0.440312 | 9.973146 | 8 | 30 | |
| | 40 | 9.532893 | 58 | 9.559754 | 66 | 0.440246 | 9.973139 | 7 | 20 | |
| | 50 | 9.532951 | 58 | 9.559820 | 65 | 0.440180 | 9.973131 | 8 | 10 | |
| 57 | 0 | 9.533009 | 58 | 9.559885 | 66 | 0.440115 | 9.973124 | 7 | 0 | |
| | 10 | 9.533067 | 58 | 9.559951 | 66 | 0.440049 | 9.973116 | 8 | 50 | |
| | 20 | 9.533125 | 58 | 9.560017 | 65 | 0.439983 | 9.973108 | 8 | 40 | |
| | 30 | 9.533183 | 58 | 9.560082 | 65 | 0.439918 | 9.973101 | 7 | 30 | |
| | 40 | 9.533241 | 58 | 9.560148 | 66 | 0.439852 | 9.973093 | 8 | 20 | |
| | 50 | 9.533299 | 58 | 9.560214 | 65 | 0.439786 | 9.973085 | 8 | 10 | |
| 58 | 0 | 9.533357 | 58 | 9.560279 | 66 | 0.439721 | 9.973078 | 7 | 0 | |
| | 10 | 9.533415 | 58 | 9.560345 | 65 | 0.439655 | 9.973070 | 8 | 50 | |
| | 20 | 9.533473 | 58 | 9.560410 | 66 | 0.439590 | 9.973062 | 8 | 40 | |
| | 30 | 9.533531 | 58 | 9.560476 | 66 | 0.439524 | 9.973055 | 7 | 30 | |
| | 40 | 9.533589 | 58 | 9.560542 | 65 | 0.439458 | 9.973047 | 8 | 20 | |
| | 50 | 9.533647 | 57 | 9.560607 | 66 | 0.439393 | 9.973039 | 8 | 10 | |
| 59 | 0 | 9.533704 | 58 | 9.560673 | 65 | 0.439327 | 9.973032 | 7 | 0 | |
| | 10 | 9.533762 | 58 | 9.560738 | 66 | 0.439262 | 9.973024 | 8 | 50 | |
| | 20 | 9.533820 | 58 | 9.560804 | 65 | 0.439196 | 9.973016 | 8 | 40 | |
| | 30 | 9.533878 | 58 | 9.560869 | 65 | 0.439131 | 9.973009 | 7 | 30 | |
| | 40 | 9.533936 | 58 | 9.560935 | 66 | 0.439065 | 9.973001 | 8 | 20 | |
| | 50 | 9.533994 | 58 | 9.561000 | 65 | 0.439000 | 9.972993 | 8 | 10 | |
| 60 | 0 | 9.534052 | 58 | 9.561066 | 66 | 0.438934 | 9.972986 | 7 | 0 | |

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| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|------|----------|----------|----|----|----|
| | 0 | 0 9.534052 | 58 | 9.561066 | 65 | 0.438803 | 9.972970 | 8 | 0 | 60 |
| | 10 | 9.534110 | 57 | 9.561131 | 66 | 0.438738 | 9.972963 | 8 | 50 | |
| | 20 | 9.534167 | 58 | 9.561197 | 65 | 0.438672 | 9.972955 | 8 | 40 | |
| | 30 | 9.534225 | 58 | 9.561262 | 66 | 0.438607 | 9.972947 | 8 | 30 | |
| | 40 | 9.534283 | 58 | 9.561328 | 65 | 0.438541 | 9.972940 | 8 | 20 | |
| 66 | 50 | 9.534341 | 58 | 9.561393 | 66 | 0.438476 | 9.972932 | 8 | 10 | |
| 1 6.6 | 1 | 0 9.534399 | 57 | 9.561459 | 65 | 0.438410 | 9.972924 | 8 | 0 | 59 |
| 2 13.2 | 10 | 9.534456 | 58 | 9.561524 | 66 | 0.438345 | 9.972917 | 8 | 50 | |
| 3 19.8 | 20 | 9.534514 | 58 | 9.561590 | 65 | 0.438279 | 9.972909 | 8 | 40 | |
| 4 26.4 | 30 | 9.534572 | 58 | 9.561655 | 66 | 0.438214 | 9.972901 | 8 | 30 | |
| 5 33.0 | 40 | 9.534630 | 57 | 9.561721 | 65 | 0.438148 | 9.972893 | 8 | 20 | |
| 6 39.6 | 50 | 9.534687 | 58 | 9.561786 | 66 | 0.438083 | 9.972885 | 8 | 10 | |
| 7 46.2 | 2 | 0 9.534745 | 58 | 9.561851 | 65 | 0.438017 | 9.972877 | 8 | 0 | 58 |
| 8 52.8 | 10 | 9.534803 | 58 | 9.561917 | 66 | 0.437952 | 9.972870 | 8 | 50 | |
| 9 59.4 | 20 | 9.534861 | 57 | 9.561982 | 65 | 0.437887 | 9.972862 | 8 | 40 | |
| | 30 | 9.534918 | 58 | 9.562048 | 66 | 0.437822 | 9.972854 | 8 | 30 | |
| | 40 | 9.534976 | 58 | 9.562113 | 65 | 0.437756 | 9.972846 | 8 | 20 | |
| | 50 | 9.535034 | 58 | 9.562178 | 66 | 0.437691 | 9.972838 | 8 | 10 | |
| 65 | 3 | 0 9.535092 | 57 | 9.562244 | 65 | 0.437625 | 9.972830 | 8 | 0 | 57 |
| 1 6.5 | 10 | 9.535149 | 58 | 9.562309 | 66 | 0.437560 | 9.972822 | 8 | 50 | |
| 2 13.0 | 20 | 9.535207 | 58 | 9.562375 | 65 | 0.437495 | 9.972814 | 8 | 40 | |
| 3 19.5 | 30 | 9.535265 | 57 | 9.562440 | 66 | 0.437429 | 9.972806 | 8 | 30 | |
| 4 26.0 | 40 | 9.535322 | 58 | 9.562505 | 65 | 0.437364 | 9.972798 | 8 | 20 | |
| 5 32.5 | 50 | 9.535380 | 58 | 9.562571 | 66 | 0.437299 | 9.972790 | 8 | 10 | |
| 6 39.0 | 4 | 0 9.535438 | 57 | 9.562636 | 65 | 0.437233 | 9.972782 | 8 | 0 | 56 |
| 7 45.5 | 10 | 9.535495 | 58 | 9.562701 | 66 | 0.437168 | 9.972774 | 8 | 50 | |
| 8 52.0 | 20 | 9.535553 | 57 | 9.562767 | 65 | 0.437103 | 9.972766 | 8 | 40 | |
| 9 58.5 | 30 | 9.535610 | 58 | 9.562832 | 66 | 0.437037 | 9.972758 | 8 | 30 | |
| | 40 | 9.535668 | 58 | 9.562897 | 65 | 0.436972 | 9.972750 | 8 | 20 | |
| | 50 | 9.535726 | 57 | 9.562963 | 66 | 0.436907 | 9.972742 | 8 | 10 | |
| | 5 | 0 9.535783 | 58 | 9.563028 | 65 | 0.436842 | 9.972734 | 8 | 0 | 55 |
| | 10 | 9.535841 | 57 | 9.563093 | 66 | 0.436776 | 9.972726 | 8 | 50 | |
| | 20 | 9.535898 | 58 | 9.563158 | 65 | 0.436711 | 9.972718 | 8 | 40 | |
| | 30 | 9.535956 | 58 | 9.563224 | 66 | 0.436646 | 9.972710 | 8 | 30 | |
| | 40 | 9.536014 | 57 | 9.563289 | 65 | 0.436581 | 9.972702 | 8 | 20 | |
| | 50 | 9.536071 | 58 | 9.563354 | 66 | 0.436515 | 9.972694 | 8 | 10 | |
| 58 | 6 | 0 9.536129 | 57 | 9.563419 | 65 | 0.436450 | 9.972686 | 8 | 0 | 54 |
| 1 5.8 | 10 | 9.536186 | 58 | 9.563485 | 66 | 0.436385 | 9.972678 | 8 | 50 | |
| 2 11.6 | 20 | 9.536244 | 57 | 9.563550 | 65 | 0.436320 | 9.972670 | 8 | 40 | |
| 3 17.4 | 30 | 9.536301 | 58 | 9.563615 | 66 | 0.436254 | 9.972662 | 8 | 30 | |
| 4 23.2 | 40 | 9.536359 | 57 | 9.563680 | 65 | 0.436189 | 9.972654 | 8 | 20 | |
| 5 29.0 | 50 | 9.536416 | 58 | 9.563746 | 66 | 0.436124 | 9.972646 | 8 | 10 | |
| 6 34.8 | 7 | 0 9.536474 | 57 | 9.563811 | 65 | 0.436059 | 9.972638 | 8 | 0 | 53 |
| 7 40.6 | 10 | 9.536531 | 58 | 9.563876 | 66 | 0.435994 | 9.972630 | 8 | 50 | |
| 8 46.4 | 20 | 9.536589 | 57 | 9.563941 | 65 | 0.435929 | 9.972622 | 8 | 40 | |
| 9 52.2 | 30 | 9.536646 | 58 | 9.564006 | 66 | 0.435863 | 9.972614 | 8 | 30 | |
| | 40 | 9.536704 | 57 | 9.564071 | 65 | 0.435798 | 9.972606 | 8 | 20 | |
| | 50 | 9.536761 | 58 | 9.564137 | 66 | 0.435733 | 9.972598 | 8 | 10 | |
| | 8 | 0 9.536818 | 57 | 9.564202 | 65 | 0.435668 | 9.972590 | 8 | 0 | 52 |
| | 10 | 9.536876 | 58 | 9.564267 | 66 | 0.435603 | 9.972582 | 8 | 50 | |
| | 20 | 9.536933 | 57 | 9.564332 | 65 | 0.435538 | 9.972574 | 8 | 40 | |
| | 30 | 9.536991 | 58 | 9.564397 | 66 | 0.435473 | 9.972566 | 8 | 30 | |
| | 40 | 9.537048 | 57 | 9.564462 | 65 | 0.435407 | 9.972558 | 8 | 20 | |
| | 50 | 9.537105 | 58 | 9.564527 | 66 | 0.435342 | 9.972550 | 8 | 10 | |
| 57 | 9 | 0 9.537163 | 57 | 9.564593 | 65 | 0.435277 | 9.972542 | 8 | 0 | 51 |
| 1 5.7 | 10 | 9.537220 | 58 | 9.564658 | 66 | 0.435212 | 9.972534 | 8 | 50 | |
| 2 11.4 | 20 | 9.537278 | 57 | 9.564723 | 65 | 0.435147 | 9.972526 | 8 | 40 | |
| 3 17.1 | 30 | 9.537335 | 58 | 9.564788 | 66 | 0.435082 | 9.972518 | 8 | 30 | |
| 4 22.8 | 40 | 9.537392 | 57 | 9.564853 | 65 | 0.435017 | 9.972510 | 8 | 20 | |
| 5 28.5 | 50 | 9.537450 | 58 | 9.564918 | 66 | 0.434952 | 9.972502 | 8 | 10 | |
| 6 34.2 | 10 | 0 9.537507 | 57 | 9.564983 | 65 | 0.434887 | 9.972494 | 8 | 0 | 50 |
| 7 39.9 | | | | | | | | | | |
| 8 45.6 | | | | | | | | | | |
| 9 51.3 | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.537507 | 57 | 9.564983 | 65 | 0.435017 | 9.972524 | 8 | 0 | 50 |
| | 10 | 9.537564 | 58 | 9.565048 | 65 | 0.434952 | 9.972516 | 8 | 50 | |
| | 20 | 9.537622 | 57 | 9.565113 | 65 | 0.434887 | 9.972508 | 8 | 40 | |
| | 30 | 9.537679 | 57 | 9.565178 | 65 | 0.434822 | 9.972501 | 8 | 30 | |
| | 40 | 9.537736 | 58 | 9.565243 | 65 | 0.434757 | 9.972493 | 8 | 20 | |
| | 50 | 9.537794 | 57 | 9.565308 | 65 | 0.434692 | 9.972485 | 8 | 10 | |
| 11 | 0 | 9.537851 | 57 | 9.565373 | 65 | 0.434627 | 9.972478 | 8 | 0 | 49 |
| | 10 | 9.537908 | 57 | 9.565438 | 65 | 0.434562 | 9.972470 | 8 | 50 | |
| | 20 | 9.537965 | 58 | 9.565503 | 65 | 0.434497 | 9.972462 | 8 | 40 | |
| | 30 | 9.538023 | 57 | 9.565568 | 65 | 0.434432 | 9.972454 | 8 | 30 | |
| | 40 | 9.538080 | 57 | 9.565633 | 65 | 0.434367 | 9.972447 | 7 | 20 | |
| | 50 | 9.538137 | 57 | 9.565698 | 65 | 0.434302 | 9.972439 | 8 | 10 | |
| 12 | 0 | 9.538194 | 58 | 9.565763 | 65 | 0.434237 | 9.972431 | 8 | 0 | 48 |
| | 10 | 9.538252 | 57 | 9.565828 | 65 | 0.434172 | 9.972423 | 8 | 50 | |
| | 20 | 9.538309 | 57 | 9.565893 | 65 | 0.434107 | 9.972416 | 7 | 40 | |
| | 30 | 9.538366 | 57 | 9.565958 | 65 | 0.434042 | 9.972408 | 8 | 30 | |
| | 40 | 9.538423 | 57 | 9.566023 | 65 | 0.433977 | 9.972400 | 8 | 20 | |
| | 50 | 9.538480 | 58 | 9.566088 | 65 | 0.433912 | 9.972392 | 8 | 10 | |
| 13 | 0 | 9.538538 | 57 | 9.566153 | 65 | 0.433847 | 9.972385 | 7 | 0 | 47 |
| | 10 | 9.538595 | 57 | 9.566218 | 65 | 0.433782 | 9.972377 | 8 | 50 | |
| | 20 | 9.538652 | 57 | 9.566283 | 65 | 0.433717 | 9.972369 | 8 | 40 | |
| | 30 | 9.538709 | 57 | 9.566348 | 65 | 0.433652 | 9.972361 | 8 | 30 | |
| | 40 | 9.538766 | 57 | 9.566413 | 65 | 0.433587 | 9.972354 | 7 | 20 | |
| | 50 | 9.538823 | 57 | 9.566478 | 64 | 0.433522 | 9.972345 | 8 | 10 | |
| 14 | 0 | 9.538880 | 58 | 9.566542 | 65 | 0.433458 | 9.972338 | 8 | 0 | 46 |
| | 10 | 9.538938 | 57 | 9.566607 | 65 | 0.433393 | 9.972330 | 8 | 50 | |
| | 20 | 9.538995 | 57 | 9.566672 | 65 | 0.433328 | 9.972322 | 8 | 40 | |
| | 30 | 9.539052 | 57 | 9.566737 | 65 | 0.433263 | 9.972315 | 7 | 30 | |
| | 40 | 9.539109 | 57 | 9.566802 | 65 | 0.433198 | 9.972307 | 8 | 20 | |
| | 50 | 9.539166 | 57 | 9.566867 | 65 | 0.433133 | 9.972299 | 8 | 10 | |
| 15 | 0 | 9.539223 | 57 | 9.566932 | 64 | 0.433068 | 9.972291 | 7 | 0 | 45 |
| | 10 | 9.539280 | 57 | 9.566996 | 65 | 0.433004 | 9.972284 | 8 | 50 | |
| | 20 | 9.539337 | 57 | 9.567061 | 65 | 0.432939 | 9.972276 | 8 | 40 | |
| | 30 | 9.539394 | 57 | 9.567126 | 65 | 0.432874 | 9.972268 | 8 | 30 | |
| | 40 | 9.539451 | 57 | 9.567191 | 65 | 0.432809 | 9.972260 | 8 | 20 | |
| | 50 | 9.539508 | 57 | 9.567256 | 65 | 0.432744 | 9.972252 | 7 | 10 | |
| 16 | 0 | 9.539565 | 57 | 9.567320 | 64 | 0.432679 | 9.972245 | 8 | 0 | 44 |
| | 10 | 9.539622 | 57 | 9.567385 | 65 | 0.432615 | 9.972237 | 8 | 50 | |
| | 20 | 9.539679 | 57 | 9.567450 | 65 | 0.432550 | 9.972229 | 8 | 40 | |
| | 30 | 9.539736 | 57 | 9.567515 | 65 | 0.432485 | 9.972221 | 8 | 30 | |
| | 40 | 9.539793 | 57 | 9.567580 | 65 | 0.432420 | 9.972214 | 7 | 20 | |
| | 50 | 9.539850 | 57 | 9.567644 | 64 | 0.432356 | 9.972206 | 8 | 10 | |
| 17 | 0 | 9.539907 | 57 | 9.567709 | 65 | 0.432291 | 9.972198 | 8 | 0 | 43 |
| | 10 | 9.539964 | 57 | 9.567774 | 65 | 0.432226 | 9.972190 | 8 | 50 | |
| | 20 | 9.540021 | 57 | 9.567839 | 65 | 0.432161 | 9.972183 | 7 | 40 | |
| | 30 | 9.540078 | 57 | 9.567903 | 64 | 0.432097 | 9.972175 | 8 | 30 | |
| | 40 | 9.540135 | 57 | 9.567968 | 65 | 0.432032 | 9.972167 | 8 | 20 | |
| | 50 | 9.540192 | 57 | 9.568033 | 65 | 0.431967 | 9.972159 | 8 | 10 | |
| 18 | 0 | 9.540249 | 57 | 9.568098 | 65 | 0.431902 | 9.972151 | 8 | 0 | 42 |
| | 10 | 9.540306 | 57 | 9.568162 | 64 | 0.431838 | 9.972144 | 7 | 50 | |
| | 20 | 9.540363 | 57 | 9.568227 | 65 | 0.431773 | 9.972136 | 8 | 40 | |
| | 30 | 9.540420 | 57 | 9.568292 | 65 | 0.431708 | 9.972128 | 8 | 30 | |
| | 40 | 9.540477 | 57 | 9.568356 | 64 | 0.431644 | 9.972120 | 8 | 20 | |
| | 50 | 9.540533 | 56 | 9.568421 | 65 | 0.431579 | 9.972112 | 8 | 10 | |
| 19 | 0 | 9.540590 | 57 | 9.568486 | 65 | 0.431514 | 9.972105 | 7 | 0 | 41 |
| | 10 | 9.540647 | 57 | 9.568550 | 64 | 0.431450 | 9.972097 | 8 | 50 | |
| | 20 | 9.540704 | 57 | 9.568615 | 65 | 0.431385 | 9.972089 | 8 | 40 | |
| | 30 | 9.540761 | 57 | 9.568680 | 65 | 0.431320 | 9.972081 | 8 | 30 | |
| | 40 | 9.540818 | 57 | 9.568744 | 64 | 0.431256 | 9.972073 | 8 | 20 | |
| | 50 | 9.540875 | 57 | 9.568809 | 65 | 0.431191 | 9.972066 | 7 | 10 | |
| 20 | 0 | 9.540931 | 56 | 9.568873 | 64 | 0.431127 | 9.972058 | 8 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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9 50.4

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | 9.540931 | 57 | 9.568873 | 65 | 0.431127 | 9.972058 | 8 | 0 | 40 |
| | 10 | 9.540988 | 57 | 9.568938 | 65 | 0.431062 | 9.972050 | 8 | 50 | |
| | 20 | 9.541045 | 57 | 9.569003 | 64 | 0.430997 | 9.972042 | 8 | 40 | |
| | 30 | 9.541102 | 57 | 9.569067 | 65 | 0.430933 | 9.972034 | 8 | 30 | |
| | 40 | 9.541159 | 57 | 9.569132 | 65 | 0.430868 | 9.972027 | 7 | 20 | |
| | 50 | 9.541215 | 56 | 9.569197 | 65 | 0.430803 | 9.972019 | 8 | 10 | |
| 21 | 0 | 9.541272 | 57 | 9.569261 | 64 | 0.430739 | 9.972011 | 8 | 0 | 39 |
| | 10 | 9.541329 | 57 | 9.569326 | 65 | 0.430674 | 9.972003 | 8 | 50 | |
| | 20 | 9.541386 | 57 | 9.569390 | 64 | 0.430610 | 9.971995 | 8 | 40 | |
| | 30 | 9.541442 | 56 | 9.569455 | 65 | 0.430545 | 9.971988 | 7 | 30 | |
| | 40 | 9.541499 | 57 | 9.569519 | 64 | 0.430481 | 9.971980 | 8 | 20 | |
| | 50 | 9.541556 | 57 | 9.569584 | 65 | 0.430416 | 9.971972 | 8 | 10 | |
| 22 | 0 | 9.541613 | 56 | 9.569648 | 64 | 0.430352 | 9.971964 | 8 | 0 | 38 |
| | 10 | 9.541669 | 57 | 9.569713 | 65 | 0.430287 | 9.971956 | 8 | 50 | |
| | 20 | 9.541726 | 57 | 9.569777 | 65 | 0.430223 | 9.971949 | 8 | 40 | |
| | 30 | 9.541783 | 57 | 9.569842 | 65 | 0.430158 | 9.971941 | 8 | 30 | |
| | 40 | 9.541839 | 56 | 9.569906 | 64 | 0.430094 | 9.971933 | 8 | 20 | |
| | 50 | 9.541896 | 57 | 9.569971 | 64 | 0.430029 | 9.971925 | 8 | 10 | |
| 23 | 0 | 9.541953 | 56 | 9.570035 | 65 | 0.429965 | 9.971917 | 8 | 0 | 37 |
| | 10 | 9.542009 | 57 | 9.570100 | 64 | 0.429900 | 9.971909 | 8 | 50 | |
| | 20 | 9.542066 | 57 | 9.570164 | 65 | 0.429836 | 9.971902 | 7 | 40 | |
| | 30 | 9.542123 | 57 | 9.570229 | 65 | 0.429771 | 9.971894 | 8 | 30 | |
| | 40 | 9.542179 | 56 | 9.570293 | 64 | 0.429707 | 9.971886 | 8 | 20 | |
| | 50 | 9.542236 | 57 | 9.570358 | 64 | 0.429642 | 9.971878 | 8 | 10 | |
| 24 | 0 | 9.542293 | 56 | 9.570422 | 65 | 0.429578 | 9.971870 | 8 | 0 | 36 |
| | 10 | 9.542349 | 57 | 9.570487 | 64 | 0.429513 | 9.971862 | 8 | 50 | |
| | 20 | 9.542406 | 57 | 9.570551 | 65 | 0.429449 | 9.971855 | 7 | 40 | |
| | 30 | 9.542462 | 56 | 9.570616 | 65 | 0.429384 | 9.971847 | 8 | 30 | |
| | 40 | 9.542519 | 57 | 9.570680 | 64 | 0.429320 | 9.971839 | 8 | 20 | |
| | 50 | 9.542576 | 57 | 9.570744 | 65 | 0.429256 | 9.971831 | 8 | 10 | |
| 25 | 0 | 9.542632 | 57 | 9.570809 | 64 | 0.429191 | 9.971823 | 8 | 0 | 35 |
| | 10 | 9.542689 | 57 | 9.570873 | 65 | 0.429127 | 9.971815 | 8 | 50 | |
| | 20 | 9.542745 | 56 | 9.570938 | 64 | 0.429062 | 9.971808 | 7 | 40 | |
| | 30 | 9.542802 | 57 | 9.571002 | 64 | 0.428998 | 9.971800 | 8 | 30 | |
| | 40 | 9.542858 | 56 | 9.571066 | 65 | 0.428934 | 9.971792 | 8 | 20 | |
| | 50 | 9.542915 | 57 | 9.571131 | 64 | 0.428869 | 9.971784 | 8 | 10 | |
| 26 | 0 | 9.542971 | 56 | 9.571195 | 64 | 0.428805 | 9.971776 | 8 | 0 | 34 |
| | 10 | 9.543028 | 57 | 9.571259 | 64 | 0.428741 | 9.971768 | 8 | 50 | |
| | 20 | 9.543084 | 56 | 9.571324 | 65 | 0.428676 | 9.971761 | 7 | 40 | |
| | 30 | 9.543141 | 57 | 9.571388 | 64 | 0.428612 | 9.971753 | 8 | 30 | |
| | 40 | 9.543197 | 56 | 9.571452 | 64 | 0.428548 | 9.971745 | 8 | 20 | |
| | 50 | 9.543254 | 57 | 9.571517 | 65 | 0.428483 | 9.971737 | 8 | 10 | |
| 27 | 0 | 9.543310 | 56 | 9.571581 | 64 | 0.428419 | 9.971729 | 8 | 0 | 33 |
| | 10 | 9.543367 | 57 | 9.571645 | 64 | 0.428355 | 9.971721 | 8 | 50 | |
| | 20 | 9.543423 | 56 | 9.571710 | 65 | 0.428290 | 9.971713 | 8 | 40 | |
| | 30 | 9.543480 | 57 | 9.571774 | 64 | 0.428226 | 9.971706 | 7 | 30 | |
| | 40 | 9.543536 | 56 | 9.571838 | 64 | 0.428162 | 9.971698 | 8 | 20 | |
| | 50 | 9.543593 | 57 | 9.571903 | 65 | 0.428097 | 9.971690 | 8 | 10 | |
| 28 | 0 | 9.543649 | 56 | 9.571967 | 64 | 0.428033 | 9.971682 | 8 | 0 | 32 |
| | 10 | 9.543705 | 57 | 9.572031 | 64 | 0.427969 | 9.971674 | 8 | 50 | |
| | 20 | 9.543762 | 56 | 9.572095 | 65 | 0.427905 | 9.971666 | 8 | 40 | |
| | 30 | 9.543818 | 57 | 9.572160 | 64 | 0.427840 | 9.971658 | 8 | 30 | |
| | 40 | 9.543875 | 56 | 9.572224 | 64 | 0.427776 | 9.971651 | 7 | 20 | |
| | 50 | 9.543931 | 57 | 9.572288 | 64 | 0.427712 | 9.971643 | 8 | 10 | |
| 29 | 0 | 9.543987 | 56 | 9.572352 | 64 | 0.427648 | 9.971635 | 8 | 0 | 31 |
| | 10 | 9.544044 | 57 | 9.572417 | 65 | 0.427583 | 9.971627 | 8 | 50 | |
| | 20 | 9.544100 | 56 | 9.572481 | 64 | 0.427519 | 9.971619 | 8 | 40 | |
| | 30 | 9.544156 | 57 | 9.572545 | 64 | 0.427455 | 9.971611 | 8 | 30 | |
| | 40 | 9.544213 | 56 | 9.572609 | 64 | 0.427391 | 9.971603 | 8 | 20 | |
| | 50 | 9.544269 | 57 | 9.572673 | 64 | 0.427327 | 9.971595 | 8 | 10 | |
| 30 | 0 | 9.544325 | 56 | 9.572738 | 65 | 0.427262 | 9.971588 | 7 | 0 | 30 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.544325 | 57 | 9.572738 | 64 | 0.427262 | 9.971588 | 8 | 0 | 30 |
| | 10 | 9.544382 | 56 | 9.572802 | 64 | 0.427198 | 9.971580 | 8 | 50 | |
| | 20 | 9.544438 | 56 | 9.572866 | 64 | 0.427134 | 9.971572 | 8 | 40 | |
| | 30 | 9.544494 | 56 | 9.572930 | 64 | 0.427070 | 9.971564 | 8 | 30 | |
| | 40 | 9.544550 | 57 | 9.572994 | 65 | 0.427006 | 9.971556 | 8 | 20 | |
| | 50 | 9.544607 | 56 | 9.573059 | 64 | 0.426941 | 9.971548 | 8 | 10 | |
| 31 | 0 | 9.544663 | 56 | 9.573123 | 64 | 0.426877 | 9.971540 | 8 | 0 | 29 |
| | 10 | 9.544719 | 57 | 9.573187 | 64 | 0.426813 | 9.971532 | 8 | 50 | |
| | 20 | 9.544776 | 56 | 9.573251 | 64 | 0.426749 | 9.971525 | 7 | 40 | |
| | 30 | 9.544832 | 56 | 9.573315 | 64 | 0.426685 | 9.971517 | 8 | 30 | |
| | 40 | 9.544888 | 56 | 9.573379 | 64 | 0.426621 | 9.971509 | 8 | 20 | |
| | 50 | 9.544944 | 56 | 9.573443 | 64 | 0.426557 | 9.971501 | 8 | 10 | |
| 32 | 0 | 9.545000 | 57 | 9.573507 | 64 | 0.426493 | 9.971493 | 8 | 0 | 28 |
| | 10 | 9.545057 | 56 | 9.573571 | 65 | 0.426429 | 9.971485 | 8 | 50 | |
| | 20 | 9.545113 | 56 | 9.573636 | 64 | 0.426364 | 9.971477 | 8 | 40 | |
| | 30 | 9.545169 | 56 | 9.573700 | 64 | 0.426300 | 9.971469 | 8 | 30 | |
| | 40 | 9.545225 | 56 | 9.573764 | 64 | 0.426236 | 9.971462 | 7 | 20 | |
| | 50 | 9.545281 | 57 | 9.573828 | 64 | 0.426172 | 9.971454 | 8 | 10 | |
| 33 | 0 | 9.545338 | 56 | 9.573892 | 64 | 0.426108 | 9.971446 | 8 | 0 | 27 |
| | 10 | 9.545394 | 56 | 9.573956 | 64 | 0.426044 | 9.971438 | 8 | 50 | |
| | 20 | 9.545450 | 56 | 9.574020 | 64 | 0.425980 | 9.971430 | 8 | 40 | |
| | 30 | 9.545506 | 56 | 9.574084 | 64 | 0.425916 | 9.971422 | 8 | 30 | |
| | 40 | 9.545562 | 56 | 9.574148 | 64 | 0.425852 | 9.971414 | 8 | 20 | |
| | 50 | 9.545618 | 56 | 9.574212 | 64 | 0.425788 | 9.971406 | 8 | 10 | |
| 34 | 0 | 9.545674 | 57 | 9.574276 | 64 | 0.425724 | 9.971398 | 8 | 0 | 26 |
| | 10 | 9.545731 | 56 | 9.574340 | 64 | 0.425660 | 9.971390 | 8 | 50 | |
| | 20 | 9.545787 | 56 | 9.574404 | 64 | 0.425596 | 9.971383 | 7 | 40 | |
| | 30 | 9.545843 | 56 | 9.574468 | 64 | 0.425532 | 9.971375 | 8 | 30 | |
| | 40 | 9.545899 | 56 | 9.574532 | 64 | 0.425468 | 9.971367 | 8 | 20 | |
| | 50 | 9.545955 | 56 | 9.574596 | 64 | 0.425404 | 9.971359 | 8 | 10 | |
| 35 | 0 | 9.546011 | 56 | 9.574660 | 64 | 0.425340 | 9.971351 | 8 | 0 | 25 |
| | 10 | 9.546067 | 56 | 9.574724 | 64 | 0.425276 | 9.971343 | 8 | 50 | |
| | 20 | 9.546123 | 56 | 9.574788 | 64 | 0.425212 | 9.971335 | 8 | 40 | |
| | 30 | 9.546179 | 56 | 9.574852 | 64 | 0.425148 | 9.971327 | 8 | 30 | |
| | 40 | 9.546235 | 56 | 9.574916 | 64 | 0.425084 | 9.971319 | 8 | 20 | |
| | 50 | 9.546291 | 56 | 9.574980 | 64 | 0.425020 | 9.971311 | 8 | 10 | |
| 36 | 0 | 9.546347 | 56 | 9.575044 | 64 | 0.424956 | 9.971303 | 8 | 0 | 24 |
| | 10 | 9.546403 | 56 | 9.575108 | 64 | 0.424892 | 9.971296 | 7 | 50 | |
| | 20 | 9.546459 | 56 | 9.575172 | 64 | 0.424828 | 9.971288 | 8 | 40 | |
| | 30 | 9.546515 | 56 | 9.575236 | 63 | 0.424764 | 9.971280 | 8 | 30 | |
| | 40 | 9.546571 | 56 | 9.575299 | 64 | 0.424701 | 9.971272 | 8 | 20 | |
| | 50 | 9.546627 | 56 | 9.575363 | 64 | 0.424637 | 9.971264 | 8 | 10 | |
| 37 | 0 | 9.546683 | 56 | 9.575427 | 64 | 0.424573 | 9.971256 | 8 | 0 | 23 |
| | 10 | 9.546739 | 56 | 9.575491 | 64 | 0.424509 | 9.971248 | 8 | 50 | |
| | 20 | 9.546795 | 56 | 9.575555 | 64 | 0.424445 | 9.971240 | 8 | 40 | |
| | 30 | 9.546851 | 56 | 9.575619 | 64 | 0.424381 | 9.971232 | 8 | 30 | |
| | 40 | 9.546907 | 56 | 9.575683 | 64 | 0.424317 | 9.971224 | 8 | 20 | |
| | 50 | 9.546963 | 56 | 9.575747 | 63 | 0.424253 | 9.971216 | 8 | 10 | |
| 38 | 0 | 9.547019 | 56 | 9.575810 | 64 | 0.424190 | 9.971208 | 8 | 0 | 22 |
| | 10 | 9.547075 | 56 | 9.575874 | 64 | 0.424126 | 9.971200 | 8 | 50 | |
| | 20 | 9.547131 | 56 | 9.575938 | 64 | 0.424062 | 9.971193 | 7 | 40 | |
| | 30 | 9.547187 | 56 | 9.576002 | 64 | 0.423998 | 9.971185 | 8 | 30 | |
| | 40 | 9.547242 | 55 | 9.576066 | 64 | 0.423934 | 9.971177 | 8 | 20 | |
| | 50 | 9.547298 | 56 | 9.576130 | 64 | 0.423870 | 9.971169 | 8 | 10 | |
| 39 | 0 | 9.547354 | 56 | 9.576193 | 63 | 0.423807 | 9.971161 | 8 | 0 | 21 |
| | 10 | 9.547410 | 56 | 9.576257 | 64 | 0.423743 | 9.971153 | 8 | 50 | |
| | 20 | 9.547466 | 56 | 9.576321 | 64 | 0.423679 | 9.971145 | 8 | 40 | |
| | 30 | 9.547522 | 56 | 9.576385 | 64 | 0.423615 | 9.971137 | 8 | 30 | |
| | 40 | 9.547578 | 56 | 9.576449 | 64 | 0.423551 | 9.971129 | 8 | 20 | |
| | 50 | 9.547633 | 55 | 9.576512 | 63 | 0.423488 | 9.971121 | 8 | 10 | |
| 40 | 0 | 9.547689 | 56 | 9.576576 | 64 | 0.423424 | 9.971113 | 8 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

64
1 6.4
2 12.8
3 19.2
4 25.6
5 32.0
6 38.4
7 44.8
8 51.2
9 57.6

63
1 6.3
2 12.6
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4 25.2
5 31.5
6 37.8
7 44.1
8 50.4
9 56.7

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56
1 5.6
2 11.2
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6 33.6
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2 11.0
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5 27.5
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64
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9 49.5

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|-----------|----------|----|----|----|
| 40 | 0 | 9.547689 | 56 | 9.576576 | 64 | 0.423424 | 9.971113 | 8 | 0 | 20 |
| | 10 | 9.547745 | 56 | 9.576640 | 64 | 0.4233360 | 9.971105 | 8 | 50 | |
| | 20 | 9.547801 | 56 | 9.576704 | 64 | 0.423296 | 9.971097 | 8 | 40 | |
| | 30 | 9.547857 | 56 | 9.576767 | 63 | 0.423233 | 9.971089 | 8 | 30 | |
| | 40 | 9.547912 | 55 | 9.576831 | 64 | 0.423169 | 9.971081 | 8 | 20 | |
| | 50 | 9.547968 | 56 | 9.576895 | 64 | 0.423105 | 9.971073 | 8 | 10 | |
| 41 | 0 | 9.548024 | 56 | 9.576959 | 63 | 0.423041 | 9.971066 | 8 | 0 | 19 |
| | 10 | 9.548080 | 56 | 9.577022 | 64 | 0.422978 | 9.971058 | 8 | 50 | |
| | 20 | 9.548136 | 56 | 9.577086 | 64 | 0.422914 | 9.971050 | 8 | 40 | |
| | 30 | 9.548191 | 55 | 9.577150 | 63 | 0.422850 | 9.971042 | 8 | 30 | |
| | 40 | 9.548247 | 56 | 9.577213 | 64 | 0.422787 | 9.971034 | 8 | 20 | |
| | 50 | 9.548303 | 56 | 9.577277 | 64 | 0.422723 | 9.971026 | 8 | 10 | |
| 42 | 0 | 9.548359 | 55 | 9.577341 | 63 | 0.422659 | 9.971018 | 8 | 0 | 18 |
| | 10 | 9.548414 | 56 | 9.577404 | 64 | 0.422596 | 9.971010 | 8 | 50 | |
| | 20 | 9.548470 | 56 | 9.577468 | 64 | 0.422532 | 9.971002 | 8 | 40 | |
| | 30 | 9.548526 | 55 | 9.577532 | 63 | 0.422468 | 9.970994 | 8 | 30 | |
| | 40 | 9.548581 | 56 | 9.577595 | 64 | 0.422405 | 9.970986 | 8 | 20 | |
| | 50 | 9.548637 | 56 | 9.577659 | 64 | 0.422341 | 9.970978 | 8 | 10 | |
| 43 | 0 | 9.548693 | 55 | 9.577723 | 63 | 0.422277 | 9.970970 | 8 | 0 | 17 |
| | 10 | 9.548748 | 56 | 9.577786 | 64 | 0.422214 | 9.970962 | 8 | 50 | |
| | 20 | 9.548804 | 56 | 9.577850 | 64 | 0.422150 | 9.970954 | 8 | 40 | |
| | 30 | 9.548860 | 55 | 9.577914 | 63 | 0.422086 | 9.970946 | 8 | 30 | |
| | 40 | 9.548915 | 56 | 9.577977 | 64 | 0.422023 | 9.970938 | 8 | 20 | |
| | 50 | 9.548971 | 56 | 9.578041 | 64 | 0.421959 | 9.970930 | 8 | 10 | |
| 44 | 0 | 9.549027 | 55 | 9.578104 | 63 | 0.421896 | 9.970922 | 8 | 0 | 16 |
| | 10 | 9.549082 | 56 | 9.578168 | 64 | 0.421832 | 9.970914 | 8 | 50 | |
| | 20 | 9.549138 | 55 | 9.578231 | 63 | 0.421769 | 9.970906 | 8 | 40 | |
| | 30 | 9.549193 | 56 | 9.578295 | 64 | 0.421705 | 9.970898 | 8 | 30 | |
| | 40 | 9.549249 | 56 | 9.578359 | 64 | 0.421641 | 9.970890 | 8 | 20 | |
| | 50 | 9.549305 | 55 | 9.578422 | 63 | 0.421578 | 9.970882 | 8 | 10 | |
| 45 | 0 | 9.549360 | 56 | 9.578486 | 63 | 0.421514 | 9.970874 | 8 | 0 | 15 |
| | 10 | 9.549416 | 55 | 9.578549 | 64 | 0.421451 | 9.970866 | 8 | 50 | |
| | 20 | 9.549471 | 56 | 9.578613 | 64 | 0.421387 | 9.970858 | 8 | 40 | |
| | 30 | 9.549527 | 56 | 9.578676 | 63 | 0.421324 | 9.970850 | 8 | 30 | |
| | 40 | 9.549582 | 55 | 9.578740 | 64 | 0.421260 | 9.970842 | 8 | 20 | |
| | 50 | 9.549638 | 56 | 9.578803 | 63 | 0.421197 | 9.970835 | 8 | 10 | |
| 46 | 0 | 9.549693 | 55 | 9.578867 | 64 | 0.421133 | 9.970827 | 8 | 0 | 14 |
| | 10 | 9.549749 | 56 | 9.578930 | 63 | 0.421070 | 9.970819 | 8 | 50 | |
| | 20 | 9.549805 | 56 | 9.578994 | 64 | 0.421006 | 9.970811 | 8 | 40 | |
| | 30 | 9.549860 | 55 | 9.579057 | 63 | 0.420943 | 9.970803 | 8 | 30 | |
| | 40 | 9.549916 | 56 | 9.579121 | 64 | 0.420879 | 9.970795 | 8 | 20 | |
| | 50 | 9.549971 | 55 | 9.579184 | 63 | 0.420816 | 9.970787 | 8 | 10 | |
| 47 | 0 | 9.550026 | 56 | 9.579248 | 64 | 0.420752 | 9.970779 | 8 | 0 | 13 |
| | 10 | 9.550082 | 55 | 9.579311 | 63 | 0.420689 | 9.970771 | 8 | 50 | |
| | 20 | 9.550137 | 56 | 9.579375 | 64 | 0.420625 | 9.970763 | 8 | 40 | |
| | 30 | 9.550193 | 55 | 9.579438 | 63 | 0.420562 | 9.970755 | 8 | 30 | |
| | 40 | 9.550248 | 56 | 9.579502 | 64 | 0.420498 | 9.970747 | 8 | 20 | |
| | 50 | 9.550304 | 56 | 9.579565 | 63 | 0.420435 | 9.970739 | 8 | 10 | |
| 48 | 0 | 9.550359 | 55 | 9.579629 | 64 | 0.420371 | 9.970731 | 8 | 0 | 12 |
| | 10 | 9.550415 | 56 | 9.579692 | 63 | 0.420308 | 9.970723 | 8 | 50 | |
| | 20 | 9.550470 | 55 | 9.579755 | 64 | 0.420245 | 9.970715 | 8 | 40 | |
| | 30 | 9.550525 | 56 | 9.579819 | 63 | 0.420181 | 9.970707 | 8 | 30 | |
| | 40 | 9.550581 | 55 | 9.579882 | 64 | 0.420118 | 9.970699 | 8 | 20 | |
| | 50 | 9.550636 | 56 | 9.579946 | 63 | 0.420054 | 9.970691 | 8 | 10 | |
| 49 | 0 | 9.550692 | 55 | 9.580009 | 64 | 0.419991 | 9.970683 | 8 | 0 | 11 |
| | 10 | 9.550747 | 56 | 9.580072 | 63 | 0.419928 | 9.970675 | 8 | 50 | |
| | 20 | 9.550802 | 55 | 9.580136 | 64 | 0.419864 | 9.970667 | 8 | 40 | |
| | 30 | 9.550858 | 56 | 9.580199 | 63 | 0.419801 | 9.970659 | 8 | 30 | |
| | 40 | 9.550913 | 55 | 9.580262 | 64 | 0.419738 | 9.970651 | 8 | 20 | |
| | 50 | 9.550968 | 56 | 9.580326 | 63 | 0.419674 | 9.970643 | 8 | 10 | |
| 50 | 0 | 9.551024 | 55 | 9.580389 | 64 | 0.419611 | 9.970635 | 8 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.551024 | 55 | 9.580389 | 64 | 0.419611 | 9.970635 | 8 | 0 | 10 |
| | 10 | 9.551079 | 55 | 9.580453 | 63 | 0.419547 | 9.970627 | 8 | 50 | |
| | 20 | 9.551134 | 56 | 9.580516 | 63 | 0.419484 | 9.970619 | 8 | 40 | |
| | 30 | 9.551190 | 55 | 9.580579 | 63 | 0.419421 | 9.970611 | 8 | 30 | |
| | 40 | 9.551245 | 55 | 9.580642 | 63 | 0.419358 | 9.970603 | 8 | 20 | |
| | 50 | 9.551300 | 55 | 9.580706 | 64 | 0.419294 | 9.970594 | 8 | 10 | |
| 51 | 0 | 9.551356 | 55 | 9.580769 | 63 | 0.419231 | 9.970586 | 8 | 0 | 9 |
| | 10 | 9.551411 | 55 | 9.580832 | 64 | 0.419168 | 9.970578 | 8 | 50 | |
| | 20 | 9.551466 | 55 | 9.580896 | 63 | 0.419104 | 9.970570 | 8 | 40 | |
| | 30 | 9.551521 | 56 | 9.580959 | 63 | 0.419041 | 9.970562 | 8 | 30 | |
| | 40 | 9.551577 | 55 | 9.581022 | 63 | 0.418978 | 9.970554 | 8 | 20 | |
| | 50 | 9.551632 | 55 | 9.581086 | 64 | 0.418914 | 9.970546 | 8 | 10 | |
| 52 | 0 | 9.551687 | 55 | 9.581149 | 63 | 0.418851 | 9.970538 | 8 | 0 | 8 |
| | 10 | 9.551742 | 55 | 9.581212 | 63 | 0.418788 | 9.970530 | 8 | 50 | |
| | 20 | 9.551798 | 56 | 9.581275 | 63 | 0.418725 | 9.970522 | 8 | 40 | |
| | 30 | 9.551853 | 55 | 9.581339 | 64 | 0.418661 | 9.970514 | 8 | 30 | |
| | 40 | 9.551908 | 55 | 9.581402 | 63 | 0.418598 | 9.970506 | 8 | 20 | |
| | 50 | 9.551963 | 55 | 9.581465 | 63 | 0.418535 | 9.970498 | 8 | 10 | |
| 53 | 0 | 9.552018 | 56 | 9.581528 | 63 | 0.418472 | 9.970490 | 8 | 0 | 7 |
| | 10 | 9.552074 | 55 | 9.581591 | 63 | 0.418409 | 9.970482 | 8 | 50 | |
| | 20 | 9.552129 | 55 | 9.581655 | 64 | 0.418345 | 9.970474 | 8 | 40 | |
| | 30 | 9.552184 | 55 | 9.581718 | 63 | 0.418282 | 9.970466 | 8 | 30 | |
| | 40 | 9.552239 | 55 | 9.581781 | 63 | 0.418219 | 9.970458 | 8 | 20 | |
| | 50 | 9.552294 | 55 | 9.581844 | 63 | 0.418156 | 9.970450 | 8 | 10 | |
| 54 | 0 | 9.552349 | 56 | 9.581907 | 63 | 0.418093 | 9.970442 | 8 | 0 | 6 |
| | 10 | 9.552405 | 55 | 9.581971 | 64 | 0.418029 | 9.970434 | 8 | 50 | |
| | 20 | 9.552460 | 55 | 9.582034 | 63 | 0.417966 | 9.970426 | 8 | 40 | |
| | 30 | 9.552515 | 55 | 9.582097 | 63 | 0.417903 | 9.970418 | 8 | 30 | |
| | 40 | 9.552570 | 55 | 9.582160 | 63 | 0.417840 | 9.970410 | 8 | 20 | |
| | 50 | 9.552625 | 55 | 9.582223 | 63 | 0.417777 | 9.970402 | 8 | 10 | |
| 55 | 0 | 9.552680 | 55 | 9.582286 | 64 | 0.417714 | 9.970394 | 8 | 0 | 5 |
| | 10 | 9.552735 | 55 | 9.582350 | 63 | 0.417650 | 9.970386 | 8 | 50 | |
| | 20 | 9.552790 | 55 | 9.582413 | 63 | 0.417587 | 9.970378 | 8 | 40 | |
| | 30 | 9.552845 | 55 | 9.582476 | 63 | 0.417524 | 9.970370 | 8 | 30 | |
| | 40 | 9.552900 | 55 | 9.582539 | 63 | 0.417461 | 9.970361 | 8 | 20 | |
| | 50 | 9.552955 | 55 | 9.582602 | 63 | 0.417398 | 9.970353 | 8 | 10 | |
| 56 | 0 | 9.553010 | 55 | 9.582665 | 63 | 0.417335 | 9.970345 | 8 | 0 | 4 |
| | 10 | 9.553065 | 56 | 9.582728 | 63 | 0.417272 | 9.970337 | 8 | 50 | |
| | 20 | 9.553121 | 55 | 9.582791 | 63 | 0.417209 | 9.970329 | 8 | 40 | |
| | 30 | 9.553176 | 55 | 9.582854 | 63 | 0.417146 | 9.970321 | 8 | 30 | |
| | 40 | 9.553231 | 55 | 9.582917 | 63 | 0.417083 | 9.970313 | 8 | 20 | |
| | 50 | 9.553286 | 55 | 9.582980 | 63 | 0.417020 | 9.970305 | 8 | 10 | |
| 57 | 0 | 9.553341 | 55 | 9.583044 | 64 | 0.416956 | 9.970297 | 8 | 0 | 3 |
| | 10 | 9.553396 | 55 | 9.583107 | 63 | 0.416893 | 9.970289 | 8 | 50 | |
| | 20 | 9.553451 | 55 | 9.583170 | 63 | 0.416830 | 9.970281 | 8 | 40 | |
| | 30 | 9.553506 | 55 | 9.583233 | 63 | 0.416767 | 9.970273 | 8 | 30 | |
| | 40 | 9.553560 | 54 | 9.583296 | 63 | 0.416704 | 9.970265 | 8 | 20 | |
| | 50 | 9.553615 | 55 | 9.583359 | 63 | 0.416641 | 9.970257 | 8 | 10 | |
| 58 | 0 | 9.553670 | 55 | 9.583422 | 63 | 0.416578 | 9.970249 | 8 | 0 | 2 |
| | 10 | 9.553725 | 55 | 9.583485 | 63 | 0.416515 | 9.970241 | 8 | 50 | |
| | 20 | 9.553780 | 55 | 9.583548 | 63 | 0.416452 | 9.970233 | 8 | 40 | |
| | 30 | 9.553835 | 55 | 9.583611 | 63 | 0.416389 | 9.970224 | 8 | 30 | |
| | 40 | 9.553890 | 55 | 9.583674 | 63 | 0.416326 | 9.970216 | 8 | 20 | |
| | 50 | 9.553945 | 55 | 9.583737 | 63 | 0.416263 | 9.970208 | 8 | 10 | |
| 59 | 0 | 9.554000 | 55 | 9.583800 | 63 | 0.416200 | 9.970200 | 8 | 0 | 1 |
| | 10 | 9.554055 | 55 | 9.583863 | 63 | 0.416137 | 9.970192 | 8 | 50 | |
| | 20 | 9.554110 | 55 | 9.583926 | 63 | 0.416074 | 9.970184 | 8 | 40 | |
| | 30 | 9.554165 | 55 | 9.583989 | 63 | 0.416011 | 9.970176 | 8 | 30 | |
| | 40 | 9.554219 | 54 | 9.584052 | 63 | 0.415948 | 9.970168 | 8 | 20 | |
| | 50 | 9.554274 | 55 | 9.584114 | 62 | 0.415886 | 9.970160 | 8 | 10 | |
| 60 | 0 | 9.554329 | 55 | 9.584177 | 63 | 0.415823 | 9.970152 | 8 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | o | 9.554329 | 55 | 9.584177 | 63 | 0.415823 | 9.970152 | 8 | o | 60 |
| | 10 | 9.554384 | 55 | 9.584240 | 63 | 0.415760 | 9.970144 | 8 | 50 | |
| | 20 | 9.554439 | 55 | 9.584303 | 63 | 0.415697 | 9.970136 | 8 | 40 | |
| | 30 | 9.554494 | 55 | 9.584366 | 63 | 0.415634 | 9.970127 | 8 | 30 | |
| | 40 | 9.554549 | 55 | 9.584429 | 63 | 0.415571 | 9.970119 | 8 | 20 | |
| | 50 | 9.554603 | 54 | 9.584492 | 63 | 0.415508 | 9.970111 | 8 | 10 | |
| 63 | o | 9.554658 | 55 | 9.584555 | 63 | 0.415445 | 9.970103 | 8 | o | 59 |
| 1 6.3 | 10 | 9.554713 | 55 | 9.584618 | 63 | 0.415382 | 9.970095 | 8 | 50 | |
| 2 12.6 | 20 | 9.554768 | 55 | 9.584681 | 63 | 0.415319 | 9.970087 | 8 | 40 | |
| 3 18.9 | 30 | 9.554822 | 54 | 9.584744 | 63 | 0.415256 | 9.970079 | 8 | 30 | |
| 4 25.2 | 40 | 9.554877 | 55 | 9.584806 | 63 | 0.415194 | 9.970071 | 8 | 20 | |
| 5 31.5 | 50 | 9.554932 | 55 | 9.584869 | 63 | 0.415131 | 9.970063 | 8 | 10 | |
| 6 37.8 | o | 9.554987 | 55 | 9.584932 | 63 | 0.415068 | 9.970055 | 8 | o | 58 |
| 7 44.1 | 10 | 9.555042 | 55 | 9.584995 | 63 | 0.415005 | 9.970047 | 8 | 50 | |
| 8 50.4 | 20 | 9.555096 | 54 | 9.585058 | 63 | 0.414942 | 9.970038 | 8 | 40 | |
| 9 56.7 | 30 | 9.555151 | 55 | 9.585121 | 63 | 0.414879 | 9.970030 | 8 | 30 | |
| | 40 | 9.555206 | 55 | 9.585183 | 63 | 0.414817 | 9.970022 | 8 | 20 | |
| | 50 | 9.555260 | 54 | 9.585246 | 63 | 0.414754 | 9.970014 | 8 | 10 | |
| 62 | o | 9.555315 | 55 | 9.585309 | 63 | 0.414691 | 9.970006 | 8 | o | 57 |
| 1 6.2 | 10 | 9.555370 | 55 | 9.585372 | 63 | 0.414628 | 9.969998 | 8 | 50 | |
| 2 12.4 | 20 | 9.555425 | 55 | 9.585435 | 63 | 0.414565 | 9.969990 | 8 | 40 | |
| 3 18.6 | 30 | 9.555479 | 54 | 9.585498 | 63 | 0.414502 | 9.969982 | 8 | 30 | |
| 4 24.8 | 40 | 9.555534 | 55 | 9.585560 | 63 | 0.414440 | 9.969974 | 8 | 20 | |
| 5 31.0 | 50 | 9.555589 | 55 | 9.585623 | 63 | 0.414377 | 9.969966 | 8 | 10 | |
| 6 37.2 | o | 9.555643 | 54 | 9.585686 | 63 | 0.414314 | 9.969957 | 9 | o | 56 |
| 7 43.4 | 10 | 9.555698 | 55 | 9.585749 | 63 | 0.414251 | 9.969949 | 8 | 50 | |
| 8 49.6 | 20 | 9.555753 | 55 | 9.585811 | 62 | 0.414189 | 9.969941 | 8 | 40 | |
| 9 55.8 | 30 | 9.555807 | 54 | 9.585874 | 63 | 0.414126 | 9.969933 | 8 | 30 | |
| | 40 | 9.555862 | 55 | 9.585937 | 63 | 0.414063 | 9.969925 | 8 | 20 | |
| | 50 | 9.555916 | 54 | 9.586000 | 63 | 0.414000 | 9.969917 | 8 | 10 | |
| * | o | 9.555971 | 55 | 9.586062 | 62 | 0.413938 | 9.969909 | 8 | o | 55 |
| | 10 | 9.556026 | 55 | 9.586125 | 63 | 0.413875 | 9.969901 | 8 | 50 | |
| | 20 | 9.556080 | 54 | 9.586188 | 63 | 0.413812 | 9.969893 | 8 | 40 | |
| | 30 | 9.556135 | 55 | 9.586251 | 63 | 0.413749 | 9.969884 | 8 | 30 | |
| | 40 | 9.556190 | 55 | 9.586313 | 62 | 0.413687 | 9.969876 | 8 | 20 | |
| | 50 | 9.556244 | 54 | 9.586376 | 63 | 0.413624 | 9.969868 | 8 | 10 | |
| 55 | o | 9.556299 | 55 | 9.586439 | 63 | 0.413561 | 9.969860 | 8 | o | 54 |
| 1 5.5 | 10 | 9.556353 | 54 | 9.586501 | 62 | 0.413499 | 9.969852 | 8 | 50 | |
| 2 11.0 | 20 | 9.556408 | 55 | 9.586564 | 63 | 0.413436 | 9.969844 | 8 | 40 | |
| 3 16.5 | 30 | 9.556462 | 54 | 9.586627 | 63 | 0.413373 | 9.969836 | 8 | 30 | |
| 4 22.0 | 40 | 9.556517 | 55 | 9.586689 | 62 | 0.413311 | 9.969828 | 8 | 20 | |
| 5 27.5 | 50 | 9.556571 | 54 | 9.586752 | 63 | 0.413248 | 9.969819 | 8 | 10 | |
| 6 33.0 | o | 9.556626 | 55 | 9.586815 | 63 | 0.413185 | 9.969811 | 8 | o | 53 |
| 7 38.5 | 10 | 9.556680 | 54 | 9.586877 | 62 | 0.413123 | 9.969803 | 8 | 50 | |
| 8 44.0 | 20 | 9.556735 | 55 | 9.586940 | 63 | 0.413060 | 9.969795 | 8 | 40 | |
| 9 49.5 | 30 | 9.556789 | 54 | 9.587003 | 63 | 0.412997 | 9.969787 | 8 | 30 | |
| | 40 | 9.556844 | 55 | 9.587065 | 62 | 0.412935 | 9.969779 | 8 | 20 | |
| | 50 | 9.556898 | 54 | 9.587128 | 63 | 0.412872 | 9.969771 | 8 | 10 | |
| | o | 9.556953 | 55 | 9.587190 | 62 | 0.412810 | 9.969762 | 9 | o | 52 |
| 54 | 10 | 9.557007 | 54 | 9.587253 | 63 | 0.412747 | 9.969754 | 8 | 50 | |
| 1 5.4 | 20 | 9.557062 | 55 | 9.587316 | 63 | 0.412684 | 9.969746 | 8 | 40 | |
| 2 10.8 | 30 | 9.557116 | 54 | 9.587378 | 62 | 0.412622 | 9.969738 | 8 | 30 | |
| 3 16.2 | 40 | 9.557171 | 55 | 9.587441 | 63 | 0.412559 | 9.969730 | 8 | 20 | |
| 4 21.6 | 50 | 9.557225 | 54 | 9.587503 | 62 | 0.412497 | 9.969722 | 8 | 10 | |
| 5 27.0 | o | 9.557280 | 55 | 9.587566 | 63 | 0.412434 | 9.969714 | 8 | o | 51 |
| 6 32.4 | 10 | 9.557334 | 54 | 9.587629 | 63 | 0.412371 | 9.969705 | 9 | 50 | |
| 7 37.8 | 20 | 9.557388 | 55 | 9.587691 | 62 | 0.412309 | 9.969697 | 8 | 40 | |
| 8 43.2 | 30 | 9.557443 | 54 | 9.587754 | 63 | 0.412246 | 9.969689 | 8 | 30 | |
| 9 48.6 | 40 | 9.557497 | 55 | 9.587816 | 62 | 0.412184 | 9.969681 | 8 | 20 | |
| | 50 | 9.557552 | 54 | 9.587879 | 63 | 0.412121 | 9.969673 | 8 | 10 | |
| | o | 9.557606 | 54 | 9.587941 | 62 | 0.412059 | 9.969665 | 8 | o | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.557606 | 54 | 9.587941 | 63 | 0.412059 | 9.969665 | 8 | 0 | 50 |
| | 10 | 9.557660 | 55 | 9.588004 | 62 | 0.411996 | 9.969657 | 9 | 50 | |
| | 20 | 9.557715 | 54 | 9.588066 | 63 | 0.411934 | 9.969648 | 9 | 40 | |
| | 30 | 9.557769 | 54 | 9.588129 | 62 | 0.411871 | 9.969640 | 8 | 30 | |
| | 40 | 9.557823 | 55 | 9.588191 | 63 | 0.411809 | 9.969632 | 8 | 20 | |
| | 50 | 9.557878 | 54 | 9.588254 | 62 | 0.411746 | 9.969624 | 8 | 10 | |
| 11 | 0 | 9.557932 | 54 | 9.588316 | 63 | 0.411684 | 9.969616 | 8 | 0 | 49 |
| | 10 | 9.557986 | 55 | 9.588379 | 62 | 0.411621 | 9.969608 | 9 | 50 | |
| | 20 | 9.558041 | 54 | 9.588441 | 63 | 0.411559 | 9.969599 | 9 | 40 | |
| | 30 | 9.558095 | 54 | 9.588504 | 62 | 0.411496 | 9.969591 | 8 | 30 | |
| | 40 | 9.558149 | 55 | 9.588566 | 63 | 0.411434 | 9.969583 | 8 | 20 | |
| | 50 | 9.558204 | 54 | 9.588629 | 62 | 0.411371 | 9.969575 | 8 | 10 | |
| 12 | 0 | 9.558258 | 54 | 9.588691 | 63 | 0.411309 | 9.969567 | 8 | 0 | 48 |
| | 10 | 9.558312 | 55 | 9.588754 | 62 | 0.411246 | 9.969559 | 9 | 50 | |
| | 20 | 9.558366 | 54 | 9.588816 | 63 | 0.411184 | 9.969550 | 9 | 40 | |
| | 30 | 9.558421 | 55 | 9.588878 | 62 | 0.411122 | 9.969542 | 8 | 30 | |
| | 40 | 9.558475 | 54 | 9.588941 | 63 | 0.411059 | 9.969534 | 8 | 20 | |
| | 50 | 9.558529 | 54 | 9.589003 | 62 | 0.410997 | 9.969526 | 8 | 10 | |
| 13 | 0 | 9.558583 | 55 | 9.589066 | 62 | 0.410934 | 9.969518 | 8 | 0 | 47 |
| | 10 | 9.558638 | 54 | 9.589128 | 63 | 0.410872 | 9.969510 | 9 | 50 | |
| | 20 | 9.558692 | 54 | 9.589191 | 62 | 0.410809 | 9.969501 | 9 | 40 | |
| | 30 | 9.558746 | 54 | 9.589253 | 62 | 0.410747 | 9.969493 | 8 | 30 | |
| | 40 | 9.558800 | 55 | 9.589315 | 63 | 0.410685 | 9.969485 | 8 | 20 | |
| | 50 | 9.558855 | 54 | 9.589378 | 62 | 0.410622 | 9.969477 | 8 | 10 | |
| 14 | 0 | 9.558909 | 54 | 9.589440 | 62 | 0.410560 | 9.969469 | 8 | 0 | 46 |
| | 10 | 9.558963 | 54 | 9.589502 | 63 | 0.410498 | 9.969461 | 9 | 50 | |
| | 20 | 9.559017 | 54 | 9.589565 | 62 | 0.410435 | 9.969452 | 9 | 40 | |
| | 30 | 9.559071 | 54 | 9.589627 | 62 | 0.410373 | 9.969444 | 8 | 30 | |
| | 40 | 9.559125 | 55 | 9.589690 | 63 | 0.410310 | 9.969436 | 8 | 20 | |
| | 50 | 9.559180 | 54 | 9.589752 | 62 | 0.410248 | 9.969428 | 8 | 10 | |
| 15 | 0 | 9.559234 | 54 | 9.589814 | 63 | 0.410186 | 9.969420 | 9 | 0 | 45 |
| | 10 | 9.559288 | 54 | 9.589877 | 62 | 0.410123 | 9.969411 | 8 | 50 | |
| | 20 | 9.559342 | 54 | 9.589939 | 62 | 0.410061 | 9.969403 | 8 | 40 | |
| | 30 | 9.559396 | 54 | 9.590001 | 62 | 0.409999 | 9.969395 | 8 | 30 | |
| | 40 | 9.559450 | 54 | 9.590063 | 62 | 0.409937 | 9.969387 | 8 | 20 | |
| | 50 | 9.559504 | 54 | 9.590126 | 62 | 0.409874 | 9.969379 | 8 | 10 | |
| 16 | 0 | 9.559558 | 54 | 9.590188 | 62 | 0.409812 | 9.969370 | 9 | 0 | 44 |
| | 10 | 9.559613 | 55 | 9.590250 | 63 | 0.409750 | 9.969362 | 8 | 50 | |
| | 20 | 9.559667 | 54 | 9.590313 | 62 | 0.409687 | 9.969354 | 8 | 40 | |
| | 30 | 9.559721 | 54 | 9.590375 | 62 | 0.409625 | 9.969346 | 8 | 30 | |
| | 40 | 9.559775 | 54 | 9.590437 | 62 | 0.409563 | 9.969338 | 8 | 20 | |
| | 50 | 9.559829 | 54 | 9.590499 | 63 | 0.409501 | 9.969329 | 8 | 10 | |
| 17 | 0 | 9.559883 | 54 | 9.590562 | 62 | 0.409438 | 9.969321 | 8 | 0 | 43 |
| | 10 | 9.559937 | 54 | 9.590624 | 62 | 0.409376 | 9.969313 | 8 | 50 | |
| | 20 | 9.559991 | 54 | 9.590686 | 62 | 0.409314 | 9.969305 | 8 | 40 | |
| | 30 | 9.560045 | 54 | 9.590748 | 63 | 0.409252 | 9.969297 | 8 | 30 | |
| | 40 | 9.560099 | 54 | 9.590811 | 62 | 0.409189 | 9.969288 | 8 | 20 | |
| | 50 | 9.560153 | 54 | 9.590873 | 62 | 0.409127 | 9.969280 | 8 | 10 | |
| 18 | 0 | 9.560207 | 54 | 9.590935 | 62 | 0.409065 | 9.969272 | 8 | 0 | 42 |
| | 10 | 9.560261 | 54 | 9.590997 | 63 | 0.409003 | 9.969264 | 8 | 50 | |
| | 20 | 9.560315 | 54 | 9.591060 | 62 | 0.408940 | 9.969256 | 8 | 40 | |
| | 30 | 9.560369 | 54 | 9.591122 | 62 | 0.408878 | 9.969247 | 8 | 30 | |
| | 40 | 9.560423 | 54 | 9.591184 | 62 | 0.408816 | 9.969239 | 8 | 20 | |
| | 50 | 9.560477 | 54 | 9.591246 | 62 | 0.408754 | 9.969231 | 8 | 10 | |
| 19 | 0 | 9.560531 | 54 | 9.591308 | 62 | 0.408692 | 9.969223 | 8 | 0 | 41 |
| | 10 | 9.560585 | 54 | 9.591370 | 62 | 0.408630 | 9.969215 | 8 | 50 | |
| | 20 | 9.560639 | 54 | 9.591433 | 63 | 0.408567 | 9.969206 | 9 | 40 | |
| | 30 | 9.560693 | 54 | 9.591495 | 62 | 0.408505 | 9.969198 | 8 | 30 | |
| | 40 | 9.560747 | 54 | 9.591557 | 62 | 0.408443 | 9.969190 | 8 | 20 | |
| | 50 | 9.560801 | 54 | 9.591619 | 62 | 0.408381 | 9.969182 | 8 | 10 | |
| 20 | 0 | 9.560855 | 54 | 9.591681 | 62 | 0.408319 | 9.969173 | 9 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

63
1 6.3
2 12.6
3 18.9
4 25.2
5 31.5
6 37.8
7 44.1
8 50.4
9 56.7

62
1 6.2
2 12.4
3 18.6
4 24.8
5 31.0
6 37.2
7 43.4
8 49.6
9 55.8

55
1 5.5
2 11.0
3 16.5
4 22.0
5 27.5
6 33.0
7 38.5
8 44.0
9 49.5

54
1 5.4
2 10.8
3 16.2
4 21.6
5 27.0
6 32.4
7 37.8
8 43.2
9 48.6

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|-------|----------|----------|----|----|----|
| | 20 | 0 9.560855 | 53 | 9.591681 | 62 | 0.408319 | 9.969173 | 8 | 0 | 40 |
| | 10 | 9.560908 | 54 | 9.591743 | 62 | 0.408257 | 9.969165 | 8 | 50 | |
| | 20 | 9.560962 | 54 | 9.591805 | 62 | 0.408195 | 9.969157 | 8 | 40 | |
| | 30 | 9.561016 | 54 | 9.591868 | 62 | 0.408132 | 9.969149 | 8 | 30 | |
| | 40 | 9.561070 | 54 | 9.591930 | 62 | 0.408070 | 9.969141 | 8 | 20 | |
| | 50 | 9.561124 | 54 | 9.591992 | 62 | 0.408008 | 9.969132 | 8 | 10 | |
| 63 | | 9.561178 | 54 | 9.592054 | 62 | 0.407946 | 9.969124 | 8 | 0 | 39 |
| 1 6.3 | 21 | 0 9.561232 | 54 | 9.592116 | 62 | 0.407884 | 9.969116 | 8 | 50 | |
| 2 12.6 | 10 | 9.561286 | 54 | 9.592178 | 62 | 0.407822 | 9.969108 | 8 | 40 | |
| 3 18.9 | 20 | 9.561339 | 53 | 9.592240 | 62 | 0.407760 | 9.969099 | 8 | 30 | |
| 4 25.2 | 30 | 9.561393 | 54 | 9.592302 | 62 | 0.407698 | 9.969091 | 8 | 20 | |
| 5 31.5 | 40 | 9.561447 | 54 | 9.592364 | 62 | 0.407636 | 9.969083 | 8 | 10 | |
| 6 37.8 | 50 | 9.561501 | 54 | 9.592426 | 62 | 0.407574 | 9.969075 | 8 | 0 | 38 |
| 7 44.1 | 22 | 0 9.561555 | 54 | 9.592488 | 62 | 0.407512 | 9.969066 | 8 | 50 | |
| 8 50.4 | 10 | 9.561609 | 54 | 9.592550 | 62 | 0.407450 | 9.969058 | 8 | 40 | |
| 9 56.7 | 20 | 9.561662 | 53 | 9.592612 | 62 | 0.407388 | 9.969050 | 8 | 30 | |
| | 30 | 9.561716 | 54 | 9.592674 | 62 | 0.407326 | 9.969042 | 8 | 20 | |
| | 40 | 9.561770 | 54 | 9.592737 | 62 | 0.407263 | 9.969033 | 8 | 10 | |
| 62 | 50 | 9.561824 | 54 | 9.592799 | 62 | 0.407201 | 9.969025 | 8 | 0 | 37 |
| 1 6.2 | 23 | 0 9.561878 | 54 | 9.592861 | 62 | 0.407139 | 9.969017 | 8 | 50 | |
| 2 12.4 | 10 | 9.561931 | 53 | 9.592923 | 62 | 0.407077 | 9.969009 | 8 | 40 | |
| 3 18.6 | 20 | 9.561985 | 54 | 9.592985 | 62 | 0.407015 | 9.969000 | 8 | 30 | |
| 4 24.8 | 30 | 9.562039 | 54 | 9.593047 | 62 | 0.406953 | 9.968992 | 8 | 20 | |
| 5 31.0 | 40 | 9.562093 | 54 | 9.593109 | 62 | 0.406891 | 9.968984 | 8 | 10 | |
| 6 37.2 | 50 | 9.562146 | 53 | 9.593171 | 61 | 0.406829 | 9.968976 | 8 | 0 | 36 |
| 7 43.4 | 24 | 0 9.562200 | 54 | 9.593232 | 62 | 0.406768 | 9.968967 | 8 | 50 | |
| 8 49.6 | 10 | 9.562254 | 54 | 9.593294 | 62 | 0.406706 | 9.968959 | 8 | 40 | |
| 9 55.8 | 20 | 9.562307 | 53 | 9.593356 | 62 | 0.406644 | 9.968951 | 8 | 30 | |
| | 30 | 9.562361 | 54 | 9.593418 | 62 | 0.406582 | 9.968943 | 8 | 20 | |
| | 40 | 9.562415 | 54 | 9.593480 | 62 | 0.406520 | 9.968934 | 8 | 10 | |
| | 50 | 9.562468 | 53 | 9.593542 | 62 | 0.406458 | 9.968926 | 8 | 0 | 35 |
| * | 25 | 0 9.562522 | 54 | 9.593604 | 62 | 0.406396 | 9.968918 | 8 | 50 | |
| | 10 | 9.562576 | 54 | 9.593666 | 62 | 0.406334 | 9.968910 | 8 | 40 | |
| | 20 | 9.562629 | 53 | 9.593728 | 62 | 0.406272 | 9.968901 | 8 | 30 | |
| | 30 | 9.562683 | 54 | 9.593790 | 62 | 0.406210 | 9.968893 | 8 | 20 | |
| | 40 | 9.562737 | 54 | 9.593852 | 62 | 0.406148 | 9.968885 | 8 | 10 | |
| 54 | 50 | 9.562790 | 53 | 9.593914 | 62 | 0.406086 | 9.968877 | 8 | 0 | 34 |
| 1 5.4 | 26 | 0 9.562844 | 54 | 9.594038 | 62 | 0.406024 | 9.968868 | 8 | 50 | |
| 2 10.8 | 10 | 9.562898 | 54 | 9.594099 | 61 | 0.405962 | 9.968860 | 8 | 40 | |
| 3 16.2 | 20 | 9.562951 | 53 | 9.594161 | 62 | 0.405900 | 9.968852 | 8 | 30 | |
| 4 21.6 | 30 | 9.563005 | 54 | 9.594223 | 62 | 0.405839 | 9.968844 | 8 | 20 | |
| 5 27.0 | 40 | 9.563058 | 53 | 9.594285 | 62 | 0.405777 | 9.968835 | 8 | 10 | |
| 6 32.4 | 50 | 9.563112 | 54 | 9.594347 | 62 | 0.405715 | 9.968827 | 8 | 0 | 33 |
| 7 37.8 | 27 | 0 9.563166 | 53 | 9.594409 | 62 | 0.405653 | 9.968819 | 8 | 50 | |
| 8 43.2 | 10 | 9.563219 | 54 | 9.594471 | 62 | 0.405591 | 9.968810 | 8 | 40 | |
| 9 48.6 | 20 | 9.563273 | 53 | 9.594532 | 61 | 0.405529 | 9.968802 | 8 | 30 | |
| | 30 | 9.563326 | 54 | 9.594594 | 62 | 0.405468 | 9.968794 | 8 | 20 | |
| | 40 | 9.563380 | 54 | 9.594656 | 62 | 0.405406 | 9.968786 | 8 | 10 | |
| | 50 | 9.563433 | 53 | 9.594718 | 62 | 0.405344 | 9.968777 | 8 | 0 | 32 |
| 53 | 28 | 0 9.563487 | 54 | 9.594780 | 62 | 0.405282 | 9.968769 | 8 | 50 | |
| 1 5.3 | 10 | 9.563541 | 53 | 9.594842 | 62 | 0.405220 | 9.968761 | 8 | 40 | |
| 2 10.6 | 20 | 9.563594 | 54 | 9.594903 | 61 | 0.405158 | 9.968752 | 8 | 30 | |
| 3 15.9 | 30 | 9.563648 | 53 | 9.594965 | 62 | 0.405097 | 9.968744 | 8 | 20 | |
| 4 21.2 | 40 | 9.563701 | 54 | 9.595027 | 62 | 0.405035 | 9.968735 | 8 | 10 | |
| 5 26.5 | 50 | 9.563755 | 53 | 9.595089 | 62 | 0.404973 | 9.968727 | 8 | 0 | 31 |
| 6 31.8 | 29 | 0 9.563808 | 54 | 9.595150 | 61 | 0.404911 | 9.968719 | 8 | 50 | |
| 7 37.1 | 10 | 9.563862 | 53 | 9.595212 | 62 | 0.404850 | 9.968711 | 8 | 40 | |
| 8 42.4 | 20 | 9.563915 | 54 | 9.595274 | 62 | 0.404788 | 9.968703 | 8 | 30 | |
| 9 47.7 | 30 | 9.563969 | 54 | 9.595336 | 62 | 0.404726 | 9.968694 | 8 | 20 | |
| | 40 | 9.564022 | 53 | 9.595398 | 62 | 0.404664 | 9.968686 | 8 | 10 | |
| | 50 | 9.564075 | 53 | 9.595460 | 62 | 0.404602 | 9.968678 | 8 | 0 | 30 |
| | 30 | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 30 | 0 | 9.564075 | 54 | 9.595398 | 61 | 0.404602 | 9.968678 | 8 | 0 | 30 |
| | 10 | 9.564129 | 53 | 9.595459 | 62 | 0.404541 | 9.968670 | 9 | 50 | |
| | 20 | 9.564182 | 54 | 9.595521 | 62 | 0.404479 | 9.968661 | 8 | 40 | |
| | 30 | 9.564236 | 53 | 9.595583 | 61 | 0.404417 | 9.968653 | 8 | 30 | |
| | 40 | 9.564289 | 54 | 9.595644 | 62 | 0.404356 | 9.968645 | 8 | 20 | |
| | 50 | 9.564343 | 53 | 9.595706 | 62 | 0.404294 | 9.968636 | 9 | 10 | |
| 31 | 0 | 9.564396 | 53 | 9.595768 | 62 | 0.404232 | 9.968628 | 8 | 0 | 29 |
| | 10 | 9.564449 | 54 | 9.595830 | 61 | 0.404170 | 9.968620 | 8 | 50 | |
| | 20 | 9.564503 | 53 | 9.595891 | 62 | 0.404109 | 9.968612 | 8 | 40 | |
| | 30 | 9.564556 | 54 | 9.595953 | 62 | 0.404047 | 9.968603 | 9 | 30 | |
| | 40 | 9.564610 | 53 | 9.596015 | 61 | 0.403985 | 9.968595 | 8 | 20 | |
| | 50 | 9.564663 | 53 | 9.596076 | 62 | 0.403924 | 9.968587 | 9 | 10 | |
| 32 | 0 | 9.564716 | 54 | 9.596138 | 62 | 0.403862 | 9.968578 | 8 | 0 | 28 |
| | 10 | 9.564770 | 53 | 9.596200 | 61 | 0.403800 | 9.968570 | 8 | 50 | |
| | 20 | 9.564823 | 53 | 9.596261 | 62 | 0.403739 | 9.968562 | 8 | 40 | |
| | 30 | 9.564876 | 53 | 9.596323 | 62 | 0.403677 | 9.968553 | 9 | 30 | |
| | 40 | 9.564930 | 54 | 9.596385 | 61 | 0.403615 | 9.968545 | 8 | 20 | |
| | 50 | 9.564983 | 53 | 9.596446 | 62 | 0.403554 | 9.968537 | 8 | 10 | |
| 33 | 0 | 9.565036 | 54 | 9.596508 | 62 | 0.403492 | 9.968528 | 9 | 0 | 27 |
| | 10 | 9.565090 | 53 | 9.596570 | 61 | 0.403430 | 9.968520 | 8 | 50 | |
| | 20 | 9.565143 | 53 | 9.596631 | 62 | 0.403369 | 9.968512 | 8 | 40 | |
| | 30 | 9.565196 | 53 | 9.596693 | 62 | 0.403307 | 9.968503 | 9 | 30 | |
| | 40 | 9.565250 | 54 | 9.596754 | 61 | 0.403246 | 9.968495 | 8 | 20 | |
| | 50 | 9.565303 | 53 | 9.596816 | 62 | 0.403184 | 9.968487 | 8 | 10 | |
| 34 | 0 | 9.565356 | 53 | 9.596878 | 61 | 0.403122 | 9.968479 | 9 | 0 | 26 |
| | 10 | 9.565409 | 54 | 9.596939 | 62 | 0.403061 | 9.968470 | 8 | 50 | |
| | 20 | 9.565463 | 53 | 9.597001 | 62 | 0.402999 | 9.968462 | 8 | 40 | |
| | 30 | 9.565516 | 53 | 9.597062 | 61 | 0.402938 | 9.968454 | 9 | 30 | |
| | 40 | 9.565569 | 53 | 9.597124 | 62 | 0.402876 | 9.968445 | 8 | 20 | |
| | 50 | 9.565622 | 54 | 9.597185 | 62 | 0.402815 | 9.968437 | 8 | 10 | |
| 35 | 0 | 9.565676 | 53 | 9.597247 | 62 | 0.402753 | 9.968429 | 9 | 0 | 25 |
| | 10 | 9.565729 | 53 | 9.597309 | 61 | 0.402691 | 9.968420 | 8 | 50 | |
| | 20 | 9.565782 | 53 | 9.597370 | 62 | 0.402630 | 9.968412 | 8 | 40 | |
| | 30 | 9.565835 | 53 | 9.597432 | 62 | 0.402568 | 9.968404 | 9 | 30 | |
| | 40 | 9.565888 | 53 | 9.597493 | 62 | 0.402507 | 9.968395 | 8 | 20 | |
| | 50 | 9.565942 | 54 | 9.597555 | 61 | 0.402445 | 9.968387 | 8 | 10 | |
| 36 | 0 | 9.565995 | 53 | 9.597616 | 62 | 0.402383 | 9.968378 | 8 | 0 | 24 |
| | 10 | 9.566048 | 53 | 9.597678 | 61 | 0.402321 | 9.968370 | 9 | 50 | |
| | 20 | 9.566101 | 53 | 9.597739 | 62 | 0.402261 | 9.968362 | 8 | 40 | |
| | 30 | 9.566154 | 53 | 9.597801 | 62 | 0.402199 | 9.968354 | 8 | 30 | |
| | 40 | 9.566207 | 53 | 9.597862 | 61 | 0.402138 | 9.968345 | 9 | 20 | |
| | 50 | 9.566261 | 54 | 9.597924 | 62 | 0.402076 | 9.968337 | 8 | 10 | |
| 37 | 0 | 9.566314 | 53 | 9.597985 | 62 | 0.402015 | 9.968329 | 8 | 0 | 23 |
| | 10 | 9.566367 | 53 | 9.598047 | 62 | 0.401953 | 9.968320 | 9 | 50 | |
| | 20 | 9.566420 | 53 | 9.598108 | 61 | 0.401892 | 9.968312 | 8 | 40 | |
| | 30 | 9.566473 | 53 | 9.598170 | 62 | 0.401830 | 9.968303 | 9 | 30 | |
| | 40 | 9.566526 | 53 | 9.598231 | 61 | 0.401769 | 9.968295 | 8 | 20 | |
| | 50 | 9.566579 | 53 | 9.598293 | 62 | 0.401707 | 9.968287 | 8 | 10 | |
| 38 | 0 | 9.566632 | 53 | 9.598354 | 61 | 0.401646 | 9.968278 | 8 | 0 | 22 |
| | 10 | 9.566685 | 54 | 9.598415 | 62 | 0.401585 | 9.968270 | 8 | 50 | |
| | 20 | 9.566739 | 53 | 9.598477 | 62 | 0.401523 | 9.968262 | 9 | 40 | |
| | 30 | 9.566792 | 53 | 9.598538 | 61 | 0.401462 | 9.968253 | 8 | 30 | |
| | 40 | 9.566845 | 53 | 9.598600 | 62 | 0.401400 | 9.968245 | 8 | 20 | |
| | 50 | 9.566898 | 53 | 9.598661 | 61 | 0.401339 | 9.968237 | 8 | 10 | |
| 39 | 0 | 9.566951 | 53 | 9.598722 | 62 | 0.401278 | 9.968228 | 9 | 0 | 21 |
| | 10 | 9.567004 | 53 | 9.598784 | 61 | 0.401216 | 9.968220 | 8 | 50 | |
| | 20 | 9.567057 | 53 | 9.598845 | 62 | 0.401155 | 9.968212 | 8 | 40 | |
| | 30 | 9.567110 | 53 | 9.598907 | 62 | 0.401093 | 9.968203 | 9 | 30 | |
| | 40 | 9.567163 | 53 | 9.598968 | 61 | 0.401032 | 9.968195 | 8 | 20 | |
| | 50 | 9.567216 | 53 | 9.599029 | 61 | 0.400971 | 9.968187 | 8 | 10 | |
| 40 | 0 | 9.567269 | 53 | 9.599091 | 62 | 0.400909 | 9.968178 | 9 | 0 | 20 |

62
1 6.2
2 12.4
3 18.6
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5 31.0
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6 31.8
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8 42.4
9 47.7

| | | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| | 40 | 0 | 9.567269 | 53 | 9.599091 | 61 | 0.400909 | 9.968178 | 8 | 0 | 20 |
| | | 10 | 9.567322 | 53 | 9.599152 | 61 | 0.400848 | 9.968170 | 9 | 50 | |
| | | 20 | 9.567375 | 53 | 9.599213 | 62 | 0.400787 | 9.968161 | 8 | 40 | |
| | | 30 | 9.567428 | 53 | 9.599275 | 61 | 0.400725 | 9.968153 | 8 | 30 | |
| 62 | | 40 | 9.567481 | 53 | 9.599336 | 62 | 0.400664 | 9.968145 | 9 | 20 | |
| 1 6.2 | | 50 | 9.567534 | 53 | 9.599398 | 61 | 0.400602 | 9.968136 | 8 | 10 | |
| 2 12.4 | 41 | 0 | 9.567587 | 53 | 9.599459 | 61 | 0.400541 | 9.968128 | 8 | 0 | 19 |
| 3 18.6 | | 10 | 9.567640 | 53 | 9.599520 | 61 | 0.400480 | 9.968120 | 8 | 50 | |
| 4 24.8 | | 20 | 9.567693 | 53 | 9.599581 | 62 | 0.400419 | 9.968111 | 9 | 40 | |
| 5 31.0 | | 30 | 9.567746 | 53 | 9.599643 | 61 | 0.400357 | 9.968103 | 9 | 30 | |
| 6 37.2 | | 40 | 9.567799 | 53 | 9.599704 | 61 | 0.400296 | 9.968094 | 9 | 20 | |
| 7 43.4 | | 50 | 9.567851 | 52 | 9.599765 | 61 | 0.400235 | 9.968086 | 8 | 10 | |
| 8 49.6 | 42 | 0 | 9.567904 | 53 | 9.599827 | 61 | 0.400173 | 9.968078 | 8 | 0 | 18 |
| 9 55.8 | | 10 | 9.567957 | 53 | 9.599888 | 61 | 0.400112 | 9.968069 | 9 | 50 | |
| | | 20 | 9.568010 | 53 | 9.599949 | 62 | 0.400051 | 9.968061 | 8 | 40 | |
| | | 30 | 9.568063 | 53 | 9.600011 | 61 | 0.399989 | 9.968053 | 8 | 30 | |
| | | 40 | 9.568116 | 53 | 9.600072 | 61 | 0.399928 | 9.968044 | 9 | 20 | |
| | | 50 | 9.568169 | 53 | 9.600133 | 61 | 0.399867 | 9.968036 | 8 | 10 | |
| 61 | 43 | 0 | 9.568222 | 53 | 9.600194 | 61 | 0.399806 | 9.968027 | 9 | 0 | 17 |
| 1 6.1 | | 10 | 9.568275 | 52 | 9.600256 | 61 | 0.399744 | 9.968019 | 8 | 50 | |
| 2 12.2 | | 20 | 9.568327 | 53 | 9.600317 | 61 | 0.399683 | 9.968011 | 9 | 40 | |
| 3 18.3 | | 30 | 9.568380 | 53 | 9.600378 | 61 | 0.399622 | 9.968002 | 8 | 30 | |
| 4 24.4 | | 40 | 9.568433 | 53 | 9.600439 | 61 | 0.399561 | 9.967994 | 9 | 20 | |
| 5 30.5 | | 50 | 9.568486 | 53 | 9.600500 | 62 | 0.399500 | 9.967985 | 8 | 10 | |
| 6 36.6 | 44 | 0 | 9.568539 | 53 | 9.600562 | 61 | 0.399438 | 9.967977 | 8 | 0 | 16 |
| 7 42.7 | | 10 | 9.568592 | 52 | 9.600623 | 61 | 0.399377 | 9.967969 | 9 | 50 | |
| 8 48.8 | | 20 | 9.568644 | 53 | 9.600684 | 61 | 0.399316 | 9.967960 | 8 | 40 | |
| 9 54.9 | | 30 | 9.568697 | 53 | 9.600745 | 61 | 0.399255 | 9.967952 | 9 | 30 | |
| | | 40 | 9.568750 | 53 | 9.600806 | 62 | 0.399194 | 9.967943 | 8 | 20 | |
| | | 50 | 9.568803 | 53 | 9.600868 | 61 | 0.399132 | 9.967935 | 8 | 10 | |
| * | 45 | 0 | 9.568856 | 52 | 9.600929 | 61 | 0.399071 | 9.967927 | 9 | 0 | 15 |
| | | 10 | 9.568908 | 53 | 9.600990 | 61 | 0.399010 | 9.967918 | 8 | 50 | |
| | | 20 | 9.568961 | 53 | 9.601051 | 61 | 0.398949 | 9.967910 | 9 | 40 | |
| | | 30 | 9.569014 | 53 | 9.601112 | 61 | 0.398888 | 9.967901 | 9 | 30 | |
| | | 40 | 9.569067 | 52 | 9.601174 | 62 | 0.398826 | 9.967893 | 8 | 20 | |
| 53 | | 50 | 9.569119 | 53 | 9.601235 | 61 | 0.398765 | 9.967885 | 8 | 10 | |
| 1 5.3 | 46 | 0 | 9.569172 | 53 | 9.601296 | 61 | 0.398704 | 9.967876 | 9 | 0 | 14 |
| 2 10.6 | | 10 | 9.569225 | 53 | 9.601357 | 61 | 0.398643 | 9.967868 | 8 | 50 | |
| 3 15.9 | | 20 | 9.569277 | 52 | 9.601418 | 61 | 0.398582 | 9.967859 | 9 | 40 | |
| 4 21.2 | | 30 | 9.569330 | 53 | 9.601479 | 61 | 0.398521 | 9.967851 | 8 | 30 | |
| 5 26.5 | | 40 | 9.569383 | 53 | 9.601540 | 61 | 0.398460 | 9.967843 | 8 | 20 | |
| 6 31.8 | | 50 | 9.569436 | 53 | 9.601601 | 61 | 0.398399 | 9.967834 | 9 | 10 | |
| 7 37.1 | 47 | 0 | 9.569488 | 52 | 9.601663 | 62 | 0.398337 | 9.967826 | 8 | 0 | 13 |
| 8 42.4 | | 10 | 9.569541 | 53 | 9.601724 | 61 | 0.398276 | 9.967817 | 9 | 50 | |
| 9 47.7 | | 20 | 9.569594 | 53 | 9.601785 | 61 | 0.398215 | 9.967809 | 8 | 40 | |
| | | 30 | 9.569646 | 52 | 9.601846 | 61 | 0.398154 | 9.967801 | 9 | 30 | |
| | | 40 | 9.569699 | 53 | 9.601907 | 61 | 0.398093 | 9.967792 | 8 | 20 | |
| | | 50 | 9.569752 | 52 | 9.601968 | 61 | 0.398032 | 9.967784 | 9 | 10 | |
| | 48 | 0 | 9.569804 | 52 | 9.602029 | 61 | 0.397971 | 9.967775 | 8 | 0 | 12 |
| 52 | | 10 | 9.569857 | 53 | 9.602090 | 61 | 0.397910 | 9.967767 | 9 | 50 | |
| 1 5.2 | | 20 | 9.569910 | 53 | 9.602151 | 61 | 0.397849 | 9.967758 | 8 | 40 | |
| 2 10.4 | | 30 | 9.569962 | 52 | 9.602212 | 61 | 0.397788 | 9.967750 | 9 | 30 | |
| 3 15.6 | | 40 | 9.570015 | 53 | 9.602273 | 61 | 0.397727 | 9.967742 | 8 | 20 | |
| 4 20.8 | | 50 | 9.570067 | 52 | 9.602334 | 61 | 0.397666 | 9.967734 | 9 | 10 | |
| 5 26.0 | 49 | 0 | 9.570120 | 53 | 9.602395 | 61 | 0.397605 | 9.967725 | 8 | 0 | 11 |
| 6 31.2 | | 10 | 9.570173 | 53 | 9.602456 | 61 | 0.397544 | 9.967716 | 9 | 50 | |
| 7 36.4 | | 20 | 9.570225 | 52 | 9.602517 | 61 | 0.397483 | 9.967708 | 8 | 40 | |
| 8 41.6 | | 30 | 9.570278 | 53 | 9.602578 | 61 | 0.397422 | 9.967699 | 9 | 30 | |
| 9 46.8 | | 40 | 9.570330 | 52 | 9.602639 | 61 | 0.397361 | 9.967691 | 8 | 20 | |
| | | 50 | 9.570383 | 53 | 9.602700 | 61 | 0.397300 | 9.967683 | 8 | 10 | |
| | 50 | 0 | 9.570435 | 52 | 9.602761 | 61 | 0.397239 | 9.967674 | 9 | 0 | 10 |
| | | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.570435 | 53 | 9.602761 | 61 | 0.397239 | 9.967674 | 8 | 0 | 10 |
| | 10 | 9.570488 | 53 | 9.602822 | 61 | 0.397178 | 9.967666 | 9 | 50 | |
| | 20 | 9.570541 | 52 | 9.602883 | 61 | 0.397117 | 9.967657 | 9 | 40 | |
| | 30 | 9.570593 | 52 | 9.602944 | 61 | 0.397056 | 9.967649 | 9 | 30 | |
| | 40 | 9.570646 | 53 | 9.603005 | 61 | 0.396995 | 9.967640 | 9 | 20 | |
| | 50 | 9.570698 | 52 | 9.603066 | 61 | 0.396934 | 9.967632 | 8 | 10 | |
| 51 | 0 | 9.570751 | 53 | 9.603127 | 61 | 0.396873 | 9.967624 | 8 | 0 | 9 |
| | 10 | 9.570803 | 52 | 9.603188 | 61 | 0.396812 | 9.967615 | 9 | 50 | |
| | 20 | 9.570856 | 53 | 9.603249 | 61 | 0.396751 | 9.967607 | 8 | 40 | |
| | 30 | 9.570908 | 52 | 9.603310 | 61 | 0.396690 | 9.967598 | 8 | 30 | |
| | 40 | 9.570961 | 53 | 9.603371 | 61 | 0.396629 | 9.967590 | 8 | 20 | |
| | 50 | 9.571013 | 52 | 9.603432 | 61 | 0.396568 | 9.967581 | 9 | 10 | |
| 52 | 0 | 9.571066 | 53 | 9.603493 | 61 | 0.396507 | 9.967573 | 8 | 0 | 8 |
| | 10 | 9.571118 | 52 | 9.603554 | 61 | 0.396446 | 9.967564 | 9 | 50 | |
| | 20 | 9.571170 | 53 | 9.603615 | 60 | 0.396385 | 9.967556 | 8 | 40 | |
| | 30 | 9.571223 | 53 | 9.603675 | 61 | 0.396325 | 9.967547 | 9 | 30 | |
| | 40 | 9.571275 | 52 | 9.603736 | 61 | 0.396264 | 9.967539 | 8 | 20 | |
| | 50 | 9.571328 | 53 | 9.603797 | 61 | 0.396203 | 9.967531 | 8 | 10 | |
| 53 | 0 | 9.571380 | 52 | 9.603858 | 61 | 0.396142 | 9.967522 | 9 | 0 | 7 |
| | 10 | 9.571433 | 53 | 9.603919 | 61 | 0.396081 | 9.967514 | 8 | 50 | |
| | 20 | 9.571485 | 52 | 9.603980 | 61 | 0.396020 | 9.967505 | 9 | 40 | |
| | 30 | 9.571537 | 52 | 9.604041 | 61 | 0.395959 | 9.967497 | 8 | 30 | |
| | 40 | 9.571590 | 53 | 9.604102 | 60 | 0.395898 | 9.967488 | 9 | 20 | |
| | 50 | 9.571642 | 53 | 9.604162 | 61 | 0.395838 | 9.967480 | 8 | 10 | |
| 54 | 0 | 9.571695 | 52 | 9.604223 | 61 | 0.395777 | 9.967471 | 9 | 0 | 6 |
| | 10 | 9.571747 | 52 | 9.604284 | 61 | 0.395716 | 9.967463 | 8 | 50 | |
| | 20 | 9.571799 | 53 | 9.604345 | 61 | 0.395655 | 9.967454 | 9 | 40 | |
| | 30 | 9.571852 | 53 | 9.604406 | 61 | 0.395594 | 9.967446 | 8 | 30 | |
| | 40 | 9.571904 | 52 | 9.604467 | 60 | 0.395533 | 9.967437 | 9 | 20 | |
| | 50 | 9.571956 | 53 | 9.604527 | 61 | 0.395473 | 9.967429 | 8 | 10 | |
| 55 | 0 | 9.572009 | 52 | 9.604588 | 61 | 0.395412 | 9.967421 | 9 | 0 | 5 |
| | 10 | 9.572061 | 52 | 9.604649 | 61 | 0.395351 | 9.967412 | 8 | 50 | |
| | 20 | 9.572113 | 53 | 9.604710 | 61 | 0.395290 | 9.967404 | 8 | 40 | |
| | 30 | 9.572166 | 52 | 9.604771 | 60 | 0.395229 | 9.967395 | 9 | 30 | |
| | 40 | 9.572218 | 52 | 9.604831 | 61 | 0.395169 | 9.967387 | 8 | 20 | |
| | 50 | 9.572270 | 53 | 9.604892 | 61 | 0.395108 | 9.967378 | 8 | 10 | |
| 56 | 0 | 9.572323 | 52 | 9.604953 | 61 | 0.395047 | 9.967370 | 9 | 0 | 4 |
| | 10 | 9.572375 | 52 | 9.605014 | 60 | 0.394986 | 9.967361 | 8 | 50 | |
| | 20 | 9.572427 | 52 | 9.605074 | 61 | 0.394926 | 9.967353 | 8 | 40 | |
| | 30 | 9.572479 | 53 | 9.605135 | 61 | 0.394865 | 9.967344 | 9 | 30 | |
| | 40 | 9.572532 | 53 | 9.605196 | 61 | 0.394804 | 9.967336 | 8 | 20 | |
| | 50 | 9.572584 | 52 | 9.605257 | 60 | 0.394743 | 9.967327 | 9 | 10 | |
| 57 | 0 | 9.572636 | 52 | 9.605317 | 61 | 0.394683 | 9.967319 | 8 | 0 | 3 |
| | 10 | 9.572688 | 53 | 9.605378 | 61 | 0.394622 | 9.967310 | 9 | 50 | |
| | 20 | 9.572741 | 52 | 9.605439 | 61 | 0.394561 | 9.967302 | 8 | 40 | |
| | 30 | 9.572793 | 52 | 9.605500 | 60 | 0.394500 | 9.967293 | 9 | 30 | |
| | 40 | 9.572845 | 52 | 9.605560 | 61 | 0.394440 | 9.967285 | 8 | 20 | |
| | 50 | 9.572897 | 53 | 9.605621 | 61 | 0.394379 | 9.967276 | 9 | 10 | |
| 58 | 0 | 9.572950 | 52 | 9.605682 | 60 | 0.394318 | 9.967268 | 8 | 0 | 2 |
| | 10 | 9.573002 | 52 | 9.605742 | 61 | 0.394258 | 9.967259 | 9 | 50 | |
| | 20 | 9.573054 | 53 | 9.605803 | 61 | 0.394197 | 9.967251 | 8 | 40 | |
| | 30 | 9.573106 | 52 | 9.605864 | 60 | 0.394136 | 9.967242 | 9 | 30 | |
| | 40 | 9.573158 | 52 | 9.605924 | 60 | 0.394076 | 9.967234 | 8 | 20 | |
| | 50 | 9.573210 | 53 | 9.605985 | 61 | 0.394015 | 9.967225 | 9 | 10 | |
| 59 | 0 | 9.573263 | 52 | 9.606046 | 60 | 0.393954 | 9.967217 | 8 | 0 | 1 |
| | 10 | 9.573315 | 52 | 9.606106 | 61 | 0.393894 | 9.967208 | 9 | 50 | |
| | 20 | 9.573367 | 52 | 9.606167 | 61 | 0.393833 | 9.967200 | 8 | 40 | |
| | 30 | 9.573419 | 52 | 9.606228 | 60 | 0.393772 | 9.967191 | 9 | 30 | |
| | 40 | 9.573471 | 52 | 9.606288 | 60 | 0.393712 | 9.967183 | 8 | 20 | |
| | 50 | 9.573523 | 52 | 9.606349 | 61 | 0.393651 | 9.967174 | 9 | 10 | |
| 60 | 0 | 9.573575 | 52 | 9.606410 | 61 | 0.393590 | 9.967166 | 8 | 0 | 0 |

61

1. 6.1

2. 12.2

3. 18.3

4. 24.4

5. 30.5

6. 36.6

7. 42.7

8. 48.8

9. 54.9

60

1. 6.0

2. 12.0

3. 18.0

4. 24.0

5. 30.0

6. 36.0

7. 42.0

8. 48.0

9. 54.0

53

1. 5.3

2. 10.6

3. 15.9

4. 21.2

5. 26.5

6. 31.8

7. 37.1

8. 42.4

9. 47.7

52

1. 5.2

2. 10.4

3. 15.6

4. 20.8

5. 26.0

6. 31.2

7. 36.4

8. 41.6

9. 46.8

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| | 0 | 9.573575 | 53 | 9.606410 | 60 | 0.393590 | 9.967166 | 9 | 0 | 60 |
| | 10 | 9.573628 | 52 | 9.606470 | 61 | 0.393530 | 9.967157 | 8 | 50 | |
| | 20 | 9.573680 | 52 | 9.606531 | 60 | 0.393469 | 9.967149 | 8 | 40 | |
| | 30 | 9.573732 | 52 | 9.606591 | 61 | 0.393409 | 9.967140 | 8 | 30 | |
| | 40 | 9.573784 | 52 | 9.606652 | 61 | 0.393348 | 9.967132 | 8 | 20 | |
| | 50 | 9.573836 | 52 | 9.606713 | 61 | 0.393287 | 9.967123 | 8 | 10 | |
| 61 | 1 | 9.573888 | 52 | 9.606773 | 60 | 0.393227 | 9.967115 | 9 | 0 | 59 |
| 1 6.1 | 10 | 9.573940 | 52 | 9.606834 | 60 | 0.393166 | 9.967106 | 8 | 50 | |
| 2 12.2 | 20 | 9.573992 | 52 | 9.606894 | 61 | 0.393106 | 9.967098 | 8 | 40 | |
| 3 18.3 | 30 | 9.574044 | 52 | 9.606955 | 61 | 0.393045 | 9.967089 | 8 | 30 | |
| 4 24.4 | 40 | 9.574096 | 52 | 9.607015 | 61 | 0.392985 | 9.967081 | 8 | 20 | |
| 5 30.5 | 50 | 9.574148 | 52 | 9.607076 | 61 | 0.392924 | 9.967072 | 8 | 10 | |
| 6 36.6 | 2 | 9.574200 | 52 | 9.607137 | 60 | 0.392863 | 9.967064 | 9 | 0 | 58 |
| 7 42.7 | 10 | 9.574252 | 52 | 9.607197 | 61 | 0.392803 | 9.967055 | 8 | 50 | |
| 8 48.8 | 20 | 9.574304 | 52 | 9.607258 | 61 | 0.392742 | 9.967047 | 8 | 40 | |
| 9 54.9 | 30 | 9.574356 | 52 | 9.607318 | 60 | 0.392682 | 9.967038 | 8 | 30 | |
| | 40 | 9.574408 | 52 | 9.607379 | 60 | 0.392621 | 9.967030 | 8 | 20 | |
| | 50 | 9.574460 | 52 | 9.607439 | 61 | 0.392561 | 9.967021 | 8 | 10 | |
| 60 | 3 | 9.574512 | 52 | 9.607500 | 61 | 0.392500 | 9.967013 | 9 | 0 | 57 |
| 1 6.0 | 10 | 9.574564 | 52 | 9.607560 | 61 | 0.392440 | 9.967004 | 8 | 50 | |
| 2 12.0 | 20 | 9.574616 | 52 | 9.607621 | 61 | 0.392379 | 9.966995 | 8 | 40 | |
| 3 18.0 | 30 | 9.574668 | 52 | 9.607681 | 61 | 0.392319 | 9.966987 | 8 | 30 | |
| 4 24.0 | 40 | 9.574720 | 52 | 9.607742 | 61 | 0.392258 | 9.966978 | 8 | 20 | |
| 5 30.0 | 50 | 9.574772 | 52 | 9.607802 | 60 | 0.392198 | 9.966970 | 8 | 10 | |
| 6 36.0 | 4 | 9.574824 | 52 | 9.607863 | 60 | 0.392137 | 9.966961 | 8 | 0 | 56 |
| 7 42.0 | 10 | 9.574876 | 52 | 9.607923 | 61 | 0.392077 | 9.966953 | 8 | 50 | |
| 8 48.0 | 20 | 9.574928 | 52 | 9.607984 | 61 | 0.392016 | 9.966944 | 8 | 40 | |
| 9 54.0 | 30 | 9.574980 | 52 | 9.608044 | 60 | 0.391956 | 9.966936 | 8 | 30 | |
| | 40 | 9.575032 | 52 | 9.608105 | 61 | 0.391895 | 9.966927 | 8 | 20 | |
| | 50 | 9.575084 | 52 | 9.608165 | 60 | 0.391835 | 9.966919 | 8 | 10 | |
| * | 5 | 9.575136 | 51 | 9.608225 | 61 | 0.391775 | 9.966910 | 8 | 0 | 55 |
| | 10 | 9.575187 | 52 | 9.608286 | 60 | 0.391714 | 9.966902 | 9 | 50 | |
| | 20 | 9.575239 | 52 | 9.608346 | 61 | 0.391654 | 9.966893 | 8 | 40 | |
| | 30 | 9.575291 | 52 | 9.608407 | 61 | 0.391593 | 9.966884 | 8 | 30 | |
| | 40 | 9.575343 | 52 | 9.608467 | 61 | 0.391533 | 9.966876 | 8 | 20 | |
| | 50 | 9.575395 | 52 | 9.608528 | 60 | 0.391472 | 9.966867 | 8 | 10 | |
| 53 | 6 | 9.575447 | 52 | 9.608588 | 60 | 0.391412 | 9.966859 | 8 | 0 | 54 |
| 1 5.3 | 10 | 9.575499 | 52 | 9.608648 | 61 | 0.391352 | 9.966850 | 9 | 50 | |
| 2 10.6 | 20 | 9.575550 | 52 | 9.608709 | 61 | 0.391291 | 9.966842 | 8 | 40 | |
| 3 15.9 | 30 | 9.575602 | 52 | 9.608769 | 61 | 0.391231 | 9.966833 | 8 | 30 | |
| 4 21.2 | 40 | 9.575654 | 52 | 9.608830 | 60 | 0.391170 | 9.966825 | 8 | 20 | |
| 5 26.5 | 50 | 9.575706 | 52 | 9.608890 | 60 | 0.391110 | 9.966816 | 8 | 10 | |
| 6 31.8 | 7 | 9.575758 | 52 | 9.608950 | 61 | 0.391050 | 9.966808 | 8 | 0 | 53 |
| 7 37.1 | 10 | 9.575810 | 52 | 9.609011 | 61 | 0.390989 | 9.966799 | 9 | 50 | |
| 8 42.4 | 20 | 9.575861 | 51 | 9.609071 | 60 | 0.390929 | 9.966790 | 8 | 40 | |
| 9 47.7 | 30 | 9.575913 | 52 | 9.609131 | 61 | 0.390869 | 9.966782 | 8 | 30 | |
| | 40 | 9.575965 | 52 | 9.609192 | 60 | 0.390808 | 9.966773 | 8 | 20 | |
| | 50 | 9.576017 | 52 | 9.609252 | 60 | 0.390748 | 9.966765 | 8 | 10 | |
| | 8 | 9.576069 | 52 | 9.609312 | 61 | 0.390688 | 9.966756 | 9 | 0 | 52 |
| 52 | 10 | 9.576120 | 51 | 9.609373 | 60 | 0.390627 | 9.966748 | 8 | 50 | |
| 1 5.2 | 20 | 9.576172 | 52 | 9.609433 | 60 | 0.390567 | 9.966739 | 8 | 40 | |
| 2 10.4 | 30 | 9.576224 | 52 | 9.609493 | 61 | 0.390507 | 9.966730 | 8 | 30 | |
| 3 15.6 | 40 | 9.576276 | 52 | 9.609554 | 60 | 0.390446 | 9.966722 | 8 | 20 | |
| 4 20.8 | 50 | 9.576328 | 51 | 9.609614 | 60 | 0.390386 | 9.966713 | 8 | 10 | |
| 5 26.0 | 9 | 9.576380 | 52 | 9.609674 | 61 | 0.390326 | 9.966705 | 9 | 0 | 51 |
| 6 31.2 | 10 | 9.576432 | 52 | 9.609735 | 60 | 0.390265 | 9.966696 | 8 | 50 | |
| 7 36.4 | 20 | 9.576484 | 51 | 9.609795 | 60 | 0.390205 | 9.966688 | 8 | 40 | |
| 8 41.6 | 30 | 9.576534 | 52 | 9.609855 | 60 | 0.390145 | 9.966679 | 9 | 30 | |
| 9 46.8 | 40 | 9.576586 | 52 | 9.609915 | 61 | 0.390085 | 9.966670 | 8 | 20 | |
| | 50 | 9.576638 | 52 | 9.609976 | 61 | 0.390024 | 9.966662 | 8 | 10 | |
| | 10 | 9.576689 | 51 | 9.610036 | 60 | 0.389964 | 9.966653 | 9 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.576689 | 52 | 9.610036 | 60 | 0.389964 | 9.966653 | 8 | 0 | 50 |
| | 10 | 9.576741 | 52 | 9.610096 | 60 | 0.389904 | 9.966645 | 9 | 50 | |
| | 20 | 9.576793 | 51 | 9.610156 | 61 | 0.389844 | 9.966636 | 9 | 40 | |
| | 30 | 9.576844 | 51 | 9.610217 | 60 | 0.389783 | 9.966628 | 9 | 30 | |
| | 40 | 9.576896 | 52 | 9.610277 | 60 | 0.389723 | 9.966619 | 9 | 20 | |
| | 50 | 9.576948 | 52 | 9.610337 | 60 | 0.389663 | 9.966610 | 9 | 10 | |
| 11 | 0 | 9.576999 | 51 | 9.610397 | 61 | 0.389603 | 9.966602 | 8 | 0 | 49 |
| | 10 | 9.577051 | 52 | 9.610458 | 60 | 0.389542 | 9.966593 | 9 | 50 | |
| | 20 | 9.577102 | 52 | 9.610518 | 60 | 0.389482 | 9.966585 | 9 | 40 | |
| | 30 | 9.577154 | 52 | 9.610578 | 60 | 0.389422 | 9.966576 | 9 | 30 | |
| | 40 | 9.577206 | 52 | 9.610638 | 60 | 0.389362 | 9.966567 | 9 | 20 | |
| | 50 | 9.577257 | 52 | 9.610698 | 61 | 0.389302 | 9.966559 | 8 | 10 | |
| 12 | 0 | 9.577309 | 51 | 9.610759 | 60 | 0.389241 | 9.966550 | 9 | 0 | 48 |
| | 10 | 9.577360 | 52 | 9.610819 | 60 | 0.389181 | 9.966542 | 8 | 50 | |
| | 20 | 9.577412 | 52 | 9.610879 | 60 | 0.389121 | 9.966533 | 9 | 40 | |
| | 30 | 9.577464 | 52 | 9.610939 | 60 | 0.389061 | 9.966525 | 9 | 30 | |
| | 40 | 9.577515 | 51 | 9.610999 | 60 | 0.389001 | 9.966516 | 9 | 20 | |
| | 50 | 9.577567 | 51 | 9.611059 | 61 | 0.388941 | 9.966507 | 8 | 10 | |
| 13 | 0 | 9.577618 | 52 | 9.611120 | 60 | 0.388880 | 9.966499 | 9 | 0 | 47 |
| | 10 | 9.577670 | 52 | 9.611180 | 60 | 0.388820 | 9.966490 | 9 | 50 | |
| | 20 | 9.577721 | 52 | 9.611240 | 60 | 0.388760 | 9.966482 | 8 | 40 | |
| | 30 | 9.577773 | 52 | 9.611300 | 60 | 0.388700 | 9.966473 | 9 | 30 | |
| | 40 | 9.577824 | 51 | 9.611360 | 60 | 0.388640 | 9.966464 | 9 | 20 | |
| | 50 | 9.577876 | 51 | 9.611420 | 60 | 0.388580 | 9.966456 | 8 | 10 | |
| 14 | 0 | 9.577927 | 52 | 9.611480 | 60 | 0.388520 | 9.966447 | 9 | 0 | 46 |
| | 10 | 9.577979 | 52 | 9.611540 | 61 | 0.388460 | 9.966438 | 9 | 50 | |
| | 20 | 9.578030 | 52 | 9.611601 | 60 | 0.388399 | 9.966430 | 8 | 40 | |
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| 15 | 0 | 9.578236 | 52 | 9.611841 | 60 | 0.388159 | 9.966395 | 8 | 0 | 45 |
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| | 50 | 9.578494 | 51 | 9.612141 | 60 | 0.387859 | 9.966352 | 8 | 10 | |
| 16 | 0 | 9.578545 | 51 | 9.612201 | 60 | 0.387799 | 9.966344 | 9 | 0 | 44 |
| | 10 | 9.578596 | 51 | 9.612261 | 60 | 0.387739 | 9.966335 | 9 | 50 | |
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| | 50 | 9.578802 | 51 | 9.612501 | 60 | 0.387499 | 9.966301 | 8 | 10 | |
| 17 | 0 | 9.578853 | 52 | 9.612561 | 60 | 0.387439 | 9.966292 | 9 | 0 | 43 |
| | 10 | 9.578905 | 52 | 9.612621 | 60 | 0.387379 | 9.966283 | 9 | 50 | |
| | 20 | 9.578956 | 51 | 9.612681 | 60 | 0.387319 | 9.966275 | 8 | 40 | |
| | 30 | 9.579008 | 52 | 9.612741 | 60 | 0.387259 | 9.966266 | 9 | 30 | |
| | 40 | 9.579059 | 51 | 9.612801 | 60 | 0.387199 | 9.966257 | 9 | 20 | |
| | 50 | 9.579110 | 52 | 9.612861 | 60 | 0.387139 | 9.966249 | 8 | 10 | |
| 18 | 0 | 9.579162 | 52 | 9.612921 | 60 | 0.387079 | 9.966240 | 9 | 0 | 42 |
| | 10 | 9.579213 | 51 | 9.612981 | 60 | 0.387019 | 9.966232 | 8 | 50 | |
| | 20 | 9.579264 | 52 | 9.613041 | 60 | 0.386959 | 9.966223 | 9 | 40 | |
| | 30 | 9.579316 | 52 | 9.613101 | 60 | 0.386899 | 9.966214 | 9 | 30 | |
| | 40 | 9.579367 | 51 | 9.613161 | 60 | 0.386839 | 9.966206 | 9 | 20 | |
| | 50 | 9.579418 | 51 | 9.613221 | 60 | 0.386779 | 9.966197 | 9 | 10 | |
| 19 | 0 | 9.579470 | 52 | 9.613281 | 60 | 0.386719 | 9.966188 | 9 | 0 | 41 |
| | 10 | 9.579521 | 51 | 9.613341 | 60 | 0.386659 | 9.966180 | 8 | 50 | |
| | 20 | 9.579572 | 51 | 9.613401 | 60 | 0.386599 | 9.966171 | 9 | 40 | |
| | 30 | 9.579623 | 51 | 9.613461 | 60 | 0.386539 | 9.966162 | 9 | 30 | |
| | 40 | 9.579675 | 52 | 9.613521 | 60 | 0.386479 | 9.966154 | 8 | 20 | |
| | 50 | 9.579726 | 51 | 9.613581 | 60 | 0.386419 | 9.966145 | 9 | 10 | |
| 20 | 0 | 9.579777 | 51 | 9.613641 | 60 | 0.386359 | 9.966136 | 9 | 0 | 40 |

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1 6.1
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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | 9.579777 | 51 | 9.613641 | 60 | 0.386359 | 9.966136 | 8 | 0 | 40 |
| | 10 | 9.579828 | 52 | 9.613701 | 59 | 0.386299 | 9.966128 | 9 | 50 | |
| | 20 | 9.579880 | 51 | 9.613760 | 59 | 0.386240 | 9.966119 | 9 | 40 | |
| | 30 | 9.579931 | 51 | 9.613820 | 60 | 0.386180 | 9.966111 | 9 | 30 | |
| | 40 | 9.579982 | 51 | 9.613880 | 60 | 0.386120 | 9.966102 | 9 | 20 | |
| | 50 | 9.580033 | 51 | 9.613940 | 60 | 0.386060 | 9.966093 | 9 | 10 | |
| 21 | 0 | 9.580085 | 52 | 9.614000 | 60 | 0.386000 | 9.966085 | 9 | 0 | 39 |
| | 10 | 9.580136 | 51 | 9.614060 | 60 | 0.385940 | 9.966076 | 9 | 50 | |
| | 20 | 9.580187 | 51 | 9.614120 | 60 | 0.385880 | 9.966067 | 9 | 40 | |
| | 30 | 9.580238 | 51 | 9.614180 | 60 | 0.385820 | 9.966059 | 9 | 30 | |
| | 40 | 9.580289 | 51 | 9.614239 | 59 | 0.385761 | 9.966050 | 9 | 20 | |
| | 50 | 9.580341 | 52 | 9.614299 | 60 | 0.385701 | 9.966041 | 9 | 10 | |
| 22 | 0 | 9.580392 | 51 | 9.614359 | 60 | 0.385641 | 9.966033 | 9 | 0 | 38 |
| | 10 | 9.580443 | 51 | 9.614419 | 60 | 0.385581 | 9.966024 | 9 | 50 | |
| | 20 | 9.580494 | 51 | 9.614479 | 60 | 0.385521 | 9.966015 | 9 | 40 | |
| | 30 | 9.580545 | 51 | 9.614539 | 60 | 0.385461 | 9.966007 | 9 | 30 | |
| | 40 | 9.580596 | 51 | 9.614598 | 59 | 0.385402 | 9.965998 | 9 | 20 | |
| | 50 | 9.580647 | 52 | 9.614658 | 60 | 0.385342 | 9.965989 | 9 | 10 | |
| 23 | 0 | 9.580699 | 51 | 9.614718 | 60 | 0.385282 | 9.965981 | 9 | 0 | 37 |
| | 10 | 9.580750 | 51 | 9.614778 | 60 | 0.385222 | 9.965972 | 9 | 50 | |
| | 20 | 9.580801 | 51 | 9.614838 | 60 | 0.385162 | 9.965963 | 9 | 40 | |
| | 30 | 9.580852 | 51 | 9.614897 | 59 | 0.385103 | 9.965955 | 9 | 30 | |
| | 40 | 9.580903 | 51 | 9.614957 | 60 | 0.385043 | 9.965946 | 9 | 20 | |
| | 50 | 9.580954 | 51 | 9.615017 | 60 | 0.384983 | 9.965937 | 9 | 10 | |
| 24 | 0 | 9.581005 | 51 | 9.615077 | 59 | 0.384923 | 9.965929 | 9 | 0 | 36 |
| | 10 | 9.581056 | 51 | 9.615136 | 60 | 0.384864 | 9.965920 | 9 | 50 | |
| | 20 | 9.581107 | 51 | 9.615196 | 60 | 0.384804 | 9.965911 | 9 | 40 | |
| | 30 | 9.581158 | 51 | 9.615256 | 60 | 0.384744 | 9.965902 | 9 | 30 | |
| | 40 | 9.581209 | 51 | 9.615316 | 59 | 0.384684 | 9.965894 | 9 | 20 | |
| | 50 | 9.581261 | 52 | 9.615375 | 60 | 0.384625 | 9.965885 | 9 | 10 | |
| 25 | 0 | 9.581312 | 51 | 9.615435 | 60 | 0.384565 | 9.965876 | 9 | 0 | 35 |
| | 10 | 9.581363 | 51 | 9.615495 | 60 | 0.384505 | 9.965868 | 9 | 50 | |
| | 20 | 9.581414 | 51 | 9.615555 | 60 | 0.384445 | 9.965859 | 9 | 40 | |
| | 30 | 9.581465 | 51 | 9.615614 | 59 | 0.384386 | 9.965850 | 9 | 30 | |
| | 40 | 9.581516 | 51 | 9.615674 | 60 | 0.384326 | 9.965842 | 9 | 20 | |
| | 50 | 9.581567 | 51 | 9.615734 | 60 | 0.384266 | 9.965833 | 9 | 10 | |
| 26 | 0 | 9.581618 | 51 | 9.615793 | 60 | 0.384207 | 9.965824 | 9 | 0 | 34 |
| | 10 | 9.581669 | 51 | 9.615853 | 60 | 0.384147 | 9.965816 | 9 | 50 | |
| | 20 | 9.581720 | 51 | 9.615913 | 60 | 0.384087 | 9.965807 | 9 | 40 | |
| | 30 | 9.581771 | 51 | 9.615972 | 59 | 0.384028 | 9.965798 | 9 | 30 | |
| | 40 | 9.581822 | 51 | 9.616032 | 60 | 0.383968 | 9.965790 | 9 | 20 | |
| | 50 | 9.581873 | 51 | 9.616092 | 59 | 0.383908 | 9.965781 | 9 | 10 | |
| 27 | 0 | 9.581924 | 51 | 9.616151 | 60 | 0.383848 | 9.965772 | 9 | 0 | 33 |
| | 10 | 9.581975 | 51 | 9.616211 | 60 | 0.383788 | 9.965763 | 9 | 50 | |
| | 20 | 9.582025 | 51 | 9.616271 | 60 | 0.383729 | 9.965755 | 9 | 40 | |
| | 30 | 9.582076 | 51 | 9.616330 | 59 | 0.383670 | 9.965746 | 9 | 30 | |
| | 40 | 9.582127 | 51 | 9.616390 | 60 | 0.383610 | 9.965737 | 9 | 20 | |
| | 50 | 9.582178 | 51 | 9.616450 | 59 | 0.383550 | 9.965729 | 9 | 10 | |
| 28 | 0 | 9.582229 | 51 | 9.616509 | 60 | 0.383491 | 9.965720 | 9 | 0 | 32 |
| | 10 | 9.582280 | 51 | 9.616569 | 60 | 0.383431 | 9.965711 | 9 | 50 | |
| | 20 | 9.582331 | 51 | 9.616628 | 59 | 0.383372 | 9.965702 | 9 | 40 | |
| | 30 | 9.582382 | 51 | 9.616688 | 60 | 0.383312 | 9.965694 | 9 | 30 | |
| | 40 | 9.582433 | 51 | 9.616748 | 60 | 0.383252 | 9.965685 | 9 | 20 | |
| | 50 | 9.582484 | 51 | 9.616807 | 59 | 0.383193 | 9.965676 | 9 | 10 | |
| 29 | 0 | 9.582535 | 51 | 9.616867 | 60 | 0.383133 | 9.965668 | 9 | 0 | 31 |
| | 10 | 9.582585 | 51 | 9.616926 | 59 | 0.383074 | 9.965659 | 9 | 50 | |
| | 20 | 9.582636 | 51 | 9.616986 | 60 | 0.383014 | 9.965650 | 9 | 40 | |
| | 30 | 9.582687 | 51 | 9.617046 | 60 | 0.382954 | 9.965642 | 9 | 30 | |
| | 40 | 9.582738 | 51 | 9.617105 | 59 | 0.382895 | 9.965633 | 9 | 20 | |
| | 50 | 9.582789 | 51 | 9.617165 | 60 | 0.382835 | 9.965624 | 9 | 10 | |
| 30 | 0 | 9.582840 | 51 | 9.617224 | 59 | 0.382776 | 9.965615 | 9 | 0 | 30 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 30 | 0 | 9.582840 | | 9.617224 | 60 | 0.382776 | 9.965615 | 8 | 0 | 30 |
| | 10 | 9.582890 | 50 | 9.617284 | 59 | 0.382716 | 9.965607 | 9 | 50 | |
| | 20 | 9.582941 | 51 | 9.617343 | 60 | 0.382657 | 9.965598 | 9 | 40 | |
| | 30 | 9.582992 | 51 | 9.617403 | 59 | 0.382597 | 9.965589 | 9 | 30 | |
| | 40 | 9.583043 | 51 | 9.617462 | 60 | 0.382538 | 9.965580 | 9 | 20 | |
| | 50 | 9.583094 | 51 | 9.617522 | 60 | 0.382478 | 9.965572 | 9 | 10 | |
| 31 | 0 | 9.583145 | 51 | 9.617582 | | 0.382418 | 9.965563 | 9 | 0 | 29 |
| | 10 | 9.583195 | 50 | 9.617641 | 59 | 0.382359 | 9.965554 | 8 | 50 | |
| | 20 | 9.583246 | 51 | 9.617701 | 60 | 0.382299 | 9.965546 | 8 | 40 | |
| | 30 | 9.583297 | 51 | 9.617760 | 59 | 0.382240 | 9.965537 | 9 | 30 | |
| | 40 | 9.583348 | 50 | 9.617820 | 60 | 0.382180 | 9.965528 | 9 | 20 | |
| | 50 | 9.583398 | 51 | 9.617879 | 59 | 0.382121 | 9.965519 | 9 | 10 | |
| 32 | 0 | 9.583449 | 51 | 9.617939 | | 0.382061 | 9.965511 | 8 | 0 | 28 |
| | 10 | 9.583500 | 51 | 9.617998 | 59 | 0.382002 | 9.965502 | 9 | 50 | |
| | 20 | 9.583551 | 51 | 9.618057 | 60 | 0.381943 | 9.965493 | 9 | 40 | |
| | 30 | 9.583601 | 50 | 9.618117 | 59 | 0.381883 | 9.965484 | 8 | 30 | |
| | 40 | 9.583652 | 51 | 9.618176 | 60 | 0.381824 | 9.965476 | 9 | 20 | |
| | 50 | 9.583703 | 51 | 9.618236 | 59 | 0.381764 | 9.965467 | 9 | 10 | |
| 33 | 0 | 9.583754 | 51 | 9.618295 | | 0.381705 | 9.965458 | 9 | 0 | 27 |
| | 10 | 9.583804 | 50 | 9.618355 | 59 | 0.381645 | 9.965449 | 8 | 50 | |
| | 20 | 9.583855 | 51 | 9.618414 | 60 | 0.381586 | 9.965441 | 9 | 40 | |
| | 30 | 9.583906 | 51 | 9.618474 | 59 | 0.381526 | 9.965432 | 9 | 30 | |
| | 40 | 9.583956 | 50 | 9.618533 | 60 | 0.381467 | 9.965423 | 9 | 20 | |
| | 50 | 9.584007 | 51 | 9.618593 | 59 | 0.381407 | 9.965414 | 8 | 10 | |
| 34 | 0 | 9.584058 | 51 | 9.618652 | | 0.381348 | 9.965406 | 9 | 0 | 26 |
| | 10 | 9.584108 | 50 | 9.618711 | 59 | 0.381289 | 9.965397 | 9 | 50 | |
| | 20 | 9.584159 | 51 | 9.618771 | 60 | 0.381229 | 9.965388 | 9 | 40 | |
| | 30 | 9.584210 | 51 | 9.618830 | 59 | 0.381170 | 9.965379 | 8 | 30 | |
| | 40 | 9.584260 | 50 | 9.618890 | 60 | 0.381110 | 9.965371 | 9 | 20 | |
| | 50 | 9.584311 | 51 | 9.618949 | 59 | 0.381051 | 9.965362 | 9 | 10 | |
| 35 | 0 | 9.584361 | 51 | 9.619008 | | 0.380992 | 9.965353 | 9 | 0 | 25 |
| | 10 | 9.584412 | 51 | 9.619068 | 60 | 0.380932 | 9.965344 | 8 | 50 | |
| | 20 | 9.584463 | 50 | 9.619127 | 59 | 0.380873 | 9.965336 | 9 | 40 | |
| | 30 | 9.584513 | 51 | 9.619186 | 60 | 0.380814 | 9.965327 | 9 | 30 | |
| | 40 | 9.584564 | 51 | 9.619246 | 59 | 0.380754 | 9.965318 | 9 | 20 | |
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| | 10 | 9.584716 | 51 | 9.619424 | 60 | 0.380576 | 9.965292 | 9 | 50 | |
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| 37 | 0 | 9.584968 | 51 | 9.619720 | | 0.380280 | 9.965248 | 9 | 0 | 23 |
| | 10 | 9.585019 | 50 | 9.619780 | 60 | 0.380220 | 9.965239 | 9 | 50 | |
| | 20 | 9.585070 | 51 | 9.619839 | 59 | 0.380161 | 9.965230 | 9 | 40 | |
| | 30 | 9.585120 | 50 | 9.619898 | 59 | 0.380102 | 9.965222 | 8 | 30 | |
| | 40 | 9.585171 | 51 | 9.619958 | 60 | 0.380042 | 9.965213 | 9 | 20 | |
| | 50 | 9.585221 | 50 | 9.620017 | 59 | 0.379983 | 9.965204 | 9 | 10 | |
| 38 | 0 | 9.585272 | 51 | 9.620076 | | 0.379924 | 9.965195 | 8 | 0 | 22 |
| | 10 | 9.585322 | 50 | 9.620136 | 59 | 0.379864 | 9.965187 | 9 | 50 | |
| | 20 | 9.585373 | 51 | 9.620195 | 59 | 0.379805 | 9.965178 | 9 | 40 | |
| | 30 | 9.585423 | 50 | 9.620254 | 59 | 0.379746 | 9.965169 | 9 | 30 | |
| | 40 | 9.585474 | 51 | 9.620313 | 59 | 0.379687 | 9.965160 | 9 | 20 | |
| | 50 | 9.585524 | 50 | 9.620373 | 60 | 0.379627 | 9.965151 | 8 | 10 | |
| 39 | 0 | 9.585574 | 51 | 9.620432 | | 0.379568 | 9.965143 | 9 | 0 | 21 |
| | 10 | 9.585625 | 50 | 9.620491 | 59 | 0.379509 | 9.965134 | 9 | 50 | |
| | 20 | 9.585675 | 51 | 9.620550 | 59 | 0.379450 | 9.965125 | 9 | 40 | |
| | 30 | 9.585726 | 50 | 9.620610 | 60 | 0.379390 | 9.965116 | 9 | 30 | |
| | 40 | 9.585776 | 51 | 9.620669 | 59 | 0.379331 | 9.965107 | 9 | 20 | |
| | 50 | 9.585827 | 50 | 9.620728 | 59 | 0.379272 | 9.965099 | 8 | 10 | |
| 40 | 0 | 9.585877 | 50 | 9.620787 | 59 | 0.379213 | 9.965090 | 9 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|-----|----------|------|----------|------|----------|----------|---|----|----|
| | 40 | o | 9.585877 | 50 | 9.620787 | 59 | 0.379213 | 9.965090 | 9 | o | 20 |
| | | 10 | 9.585927 | 51 | 9.620846 | 60 | 0.379154 | 9.965081 | 9 | 50 | |
| | | 20 | 9.585978 | 52 | 9.620906 | 59 | 0.379094 | 9.965072 | 9 | 40 | |
| | | 30 | 9.586028 | 53 | 9.620965 | 59 | 0.379035 | 9.965064 | 9 | 30 | |
| 60 | | 40 | 9.586079 | 54 | 9.621024 | 59 | 0.378976 | 9.965055 | 9 | 20 | |
| 1 6.0 | | 50 | 9.586129 | 55 | 9.621083 | 59 | 0.378917 | 9.965046 | 9 | 10 | |
| 2 12.0 | 41 | o | 9.586179 | 51 | 9.621142 | 59 | 0.378858 | 9.965037 | 9 | o | 19 |
| 3 18.0 | | 10 | 9.586230 | 52 | 9.621201 | 60 | 0.378799 | 9.965028 | 9 | 50 | |
| 4 24.0 | | 20 | 9.586280 | 53 | 9.621261 | 59 | 0.378739 | 9.965020 | 9 | 40 | |
| 5 30.0 | | 30 | 9.586331 | 54 | 9.621320 | 59 | 0.378680 | 9.965011 | 9 | 30 | |
| 6 36.0 | | 40 | 9.586381 | 55 | 9.621379 | 59 | 0.378621 | 9.965002 | 9 | 20 | |
| 7 42.0 | | 50 | 9.586431 | 56 | 9.621438 | 59 | 0.378562 | 9.964993 | 9 | 10 | |
| 8 48.0 | 42 | o | 9.586482 | 51 | 9.621497 | 59 | 0.378503 | 9.964984 | 9 | o | 18 |
| 9 54.0 | | 10 | 9.586532 | 52 | 9.621556 | 60 | 0.378444 | 9.964975 | 9 | 50 | |
| | | 20 | 9.586582 | 53 | 9.621616 | 59 | 0.378384 | 9.964967 | 9 | 40 | |
| | | 30 | 9.586633 | 54 | 9.621675 | 59 | 0.378325 | 9.964958 | 9 | 30 | |
| | | 40 | 9.586683 | 55 | 9.621734 | 59 | 0.378266 | 9.964949 | 9 | 20 | |
| | | 50 | 9.586733 | 56 | 9.621793 | 59 | 0.378207 | 9.964940 | 9 | 10 | |
| 59 | 43 | o | 9.586783 | 51 | 9.621852 | 59 | 0.378148 | 9.964931 | 8 | o | 17 |
| 1 5.9 | | 10 | 9.586834 | 52 | 9.621911 | 59 | 0.378089 | 9.964923 | 9 | 50 | |
| 2 11.8 | | 20 | 9.586884 | 53 | 9.621970 | 59 | 0.378030 | 9.964914 | 9 | 40 | |
| 3 17.7 | | 30 | 9.586934 | 54 | 9.622029 | 59 | 0.377971 | 9.964905 | 9 | 30 | |
| 4 23.6 | | 40 | 9.586985 | 55 | 9.622088 | 59 | 0.377912 | 9.964896 | 9 | 20 | |
| 5 29.5 | | 50 | 9.587035 | 56 | 9.622147 | 59 | 0.377853 | 9.964887 | 9 | 10 | |
| 6 35.4 | 44 | o | 9.587085 | 51 | 9.622207 | 59 | 0.377793 | 9.964879 | 9 | o | 16 |
| 7 41.3 | | 10 | 9.587135 | 52 | 9.622266 | 59 | 0.377734 | 9.964870 | 9 | 50 | |
| 8 47.2 | | 20 | 9.587186 | 53 | 9.622325 | 59 | 0.377675 | 9.964861 | 9 | 40 | |
| 9 53.1 | | 30 | 9.587236 | 54 | 9.622384 | 59 | 0.377616 | 9.964852 | 9 | 30 | |
| | | 40 | 9.587286 | 55 | 9.622443 | 59 | 0.377557 | 9.964843 | 9 | 20 | |
| | | 50 | 9.587336 | 56 | 9.622502 | 59 | 0.377498 | 9.964834 | 8 | 10 | |
| * | 45 | o | 9.587386 | 51 | 9.622561 | 59 | 0.377439 | 9.964826 | 9 | o | 15 |
| | | 10 | 9.587437 | 52 | 9.622620 | 59 | 0.377380 | 9.964817 | 9 | 50 | |
| | | 20 | 9.587487 | 53 | 9.622679 | 59 | 0.377321 | 9.964808 | 9 | 40 | |
| | | 30 | 9.587537 | 54 | 9.622738 | 59 | 0.377262 | 9.964799 | 9 | 30 | |
| | | 40 | 9.587587 | 55 | 9.622797 | 59 | 0.377203 | 9.964790 | 9 | 20 | |
| | | 50 | 9.587637 | 56 | 9.622856 | 59 | 0.377144 | 9.964781 | 8 | 10 | |
| 51 | 46 | o | 9.587688 | 51 | 9.622915 | 59 | 0.377085 | 9.964773 | 9 | o | 14 |
| 1 5.1 | | 10 | 9.587738 | 52 | 9.622974 | 59 | 0.377026 | 9.964764 | 9 | 50 | |
| 2 10.2 | | 20 | 9.587788 | 53 | 9.623033 | 59 | 0.376967 | 9.964755 | 9 | 40 | |
| 3 15.3 | | 30 | 9.587838 | 54 | 9.623092 | 59 | 0.376908 | 9.964746 | 9 | 30 | |
| 4 20.4 | | 40 | 9.587888 | 55 | 9.623151 | 59 | 0.376849 | 9.964737 | 9 | 20 | |
| 5 25.5 | | 50 | 9.587938 | 56 | 9.623210 | 59 | 0.376790 | 9.964728 | 8 | 10 | |
| 6 30.6 | 47 | o | 9.587989 | 51 | 9.623269 | 59 | 0.376731 | 9.964720 | 9 | o | 13 |
| 7 35.7 | | 10 | 9.588039 | 52 | 9.623328 | 59 | 0.376672 | 9.964711 | 9 | 50 | |
| 8 40.8 | | 20 | 9.588089 | 53 | 9.623387 | 59 | 0.376613 | 9.964702 | 9 | 40 | |
| 9 45.9 | | 30 | 9.588139 | 54 | 9.623446 | 59 | 0.376554 | 9.964693 | 9 | 30 | |
| | | 40 | 9.588189 | 55 | 9.623505 | 59 | 0.376495 | 9.964684 | 9 | 20 | |
| | | 50 | 9.588239 | 56 | 9.623564 | 59 | 0.376436 | 9.964675 | 9 | 10 | |
| | 48 | o | 9.588289 | 51 | 9.623623 | 59 | 0.376377 | 9.964666 | 8 | o | 12 |
| 50 | | 10 | 9.588339 | 52 | 9.623682 | 59 | 0.376318 | 9.964658 | 9 | 50 | |
| 1 5.0 | | 20 | 9.588389 | 53 | 9.623741 | 59 | 0.376259 | 9.964649 | 9 | 40 | |
| 2 10.0 | | 30 | 9.588439 | 54 | 9.623800 | 59 | 0.376200 | 9.964640 | 9 | 30 | |
| 3 15.0 | | 40 | 9.588489 | 55 | 9.623858 | 58 | 0.376142 | 9.964631 | 9 | 20 | |
| 4 20.0 | | 50 | 9.588540 | 56 | 9.623917 | 59 | 0.376083 | 9.964622 | 9 | 10 | |
| 5 25.0 | 49 | o | 9.588590 | 51 | 9.623976 | 59 | 0.376024 | 9.964613 | 9 | o | 11 |
| 6 30.0 | | 10 | 9.588640 | 52 | 9.624035 | 59 | 0.375965 | 9.964604 | 9 | 50 | |
| 7 35.0 | | 20 | 9.588690 | 53 | 9.624094 | 59 | 0.375906 | 9.964596 | 8 | 40 | |
| 8 40.0 | | 30 | 9.588740 | 54 | 9.624153 | 59 | 0.375847 | 9.964587 | 9 | 30 | |
| 9 45.0 | | 40 | 9.588790 | 55 | 9.624212 | 59 | 0.375788 | 9.964578 | 9 | 20 | |
| | | 50 | 9.588840 | 56 | 9.624271 | 59 | 0.375729 | 9.964569 | 9 | 10 | |
| | 50 | o | 9.588890 | 51 | 9.624330 | 59 | 0.375670 | 9.964560 | 9 | o | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|---|----|
| 50 | 0 | 9.588890 | 50 | 9.624330 | 58 | 0.375670 | 9.964560 | 9 | 0 | 10 |
| | 10 | 9.588940 | 50 | 9.624388 | 59 | 0.375612 | 9.964551 | 9 | 0 | |
| | 20 | 9.588990 | 50 | 9.624447 | 59 | 0.375553 | 9.964542 | 9 | 0 | |
| | 30 | 9.589040 | 50 | 9.624506 | 59 | 0.375494 | 9.964534 | 9 | 0 | |
| | 40 | 9.589090 | 50 | 9.624565 | 59 | 0.375435 | 9.964525 | 9 | 0 | |
| | 50 | 9.589140 | 50 | 9.624624 | 59 | 0.375376 | 9.964516 | 9 | 0 | |
| 51 | 0 | 9.589190 | 50 | 9.624683 | 59 | 0.375317 | 9.964507 | 9 | 0 | 9 |
| | 10 | 9.589240 | 50 | 9.624742 | 58 | 0.375258 | 9.964498 | 9 | 0 | |
| | 20 | 9.589290 | 50 | 9.624800 | 59 | 0.375200 | 9.964489 | 9 | 0 | |
| | 30 | 9.589340 | 49 | 9.624859 | 59 | 0.375141 | 9.964480 | 9 | 0 | |
| | 40 | 9.589389 | 50 | 9.624918 | 59 | 0.375082 | 9.964471 | 9 | 0 | |
| | 50 | 9.589439 | 50 | 9.624977 | 59 | 0.375023 | 9.964463 | 9 | 0 | |
| 52 | 0 | 9.589489 | 50 | 9.625036 | 58 | 0.374964 | 9.964454 | 9 | 0 | 8 |
| | 10 | 9.589539 | 50 | 9.625094 | 59 | 0.374906 | 9.964445 | 9 | 0 | |
| | 20 | 9.589589 | 50 | 9.625153 | 59 | 0.374847 | 9.964436 | 9 | 0 | |
| | 30 | 9.589639 | 50 | 9.625212 | 59 | 0.374788 | 9.964427 | 9 | 0 | |
| | 40 | 9.589689 | 50 | 9.625271 | 59 | 0.374729 | 9.964418 | 9 | 0 | |
| | 50 | 9.589739 | 50 | 9.625330 | 58 | 0.374670 | 9.964409 | 9 | 0 | |
| 53 | 0 | 9.589789 | 50 | 9.625388 | 59 | 0.374612 | 9.964400 | 9 | 0 | 7 |
| | 10 | 9.589839 | 49 | 9.625447 | 59 | 0.374553 | 9.964392 | 9 | 0 | |
| | 20 | 9.589889 | 50 | 9.625506 | 59 | 0.374494 | 9.964383 | 9 | 0 | |
| | 30 | 9.589938 | 50 | 9.625565 | 58 | 0.374435 | 9.964374 | 9 | 0 | |
| | 40 | 9.589988 | 50 | 9.625623 | 59 | 0.374377 | 9.964365 | 9 | 0 | |
| | 50 | 9.590038 | 50 | 9.625682 | 59 | 0.374318 | 9.964356 | 9 | 0 | |
| 54 | 0 | 9.590088 | 50 | 9.625741 | 59 | 0.374259 | 9.964347 | 9 | 0 | 6 |
| | 10 | 9.590138 | 50 | 9.625800 | 58 | 0.374200 | 9.964338 | 9 | 0 | |
| | 20 | 9.590188 | 49 | 9.625858 | 59 | 0.374142 | 9.964329 | 9 | 0 | |
| | 30 | 9.590237 | 50 | 9.625917 | 59 | 0.374083 | 9.964320 | 9 | 0 | |
| | 40 | 9.590287 | 50 | 9.625976 | 59 | 0.374024 | 9.964311 | 9 | 0 | |
| | 50 | 9.590337 | 50 | 9.626035 | 58 | 0.373965 | 9.964303 | 9 | 0 | |
| 55 | 0 | 9.590387 | 50 | 9.626093 | 59 | 0.373907 | 9.964294 | 9 | 0 | 5 |
| | 10 | 9.590437 | 50 | 9.626152 | 59 | 0.373848 | 9.964285 | 9 | 0 | |
| | 20 | 9.590487 | 49 | 9.626211 | 58 | 0.373789 | 9.964276 | 9 | 0 | |
| | 30 | 9.590536 | 50 | 9.626269 | 59 | 0.373731 | 9.964267 | 9 | 0 | |
| | 40 | 9.590586 | 50 | 9.626328 | 59 | 0.373672 | 9.964258 | 9 | 0 | |
| | 50 | 9.590636 | 50 | 9.626387 | 58 | 0.373613 | 9.964249 | 9 | 0 | |
| 56 | 0 | 9.590686 | 49 | 9.626445 | 59 | 0.373555 | 9.964240 | 9 | 0 | 4 |
| | 10 | 9.590735 | 50 | 9.626504 | 59 | 0.373496 | 9.964231 | 9 | 0 | |
| | 20 | 9.590785 | 50 | 9.626563 | 58 | 0.373437 | 9.964222 | 9 | 0 | |
| | 30 | 9.590835 | 50 | 9.626621 | 59 | 0.373379 | 9.964214 | 9 | 0 | |
| | 40 | 9.590885 | 49 | 9.626680 | 59 | 0.373320 | 9.964205 | 9 | 0 | |
| | 50 | 9.590934 | 50 | 9.626739 | 58 | 0.373261 | 9.964196 | 9 | 0 | |
| 57 | 0 | 9.590984 | 50 | 9.626797 | 59 | 0.373203 | 9.964187 | 9 | 0 | 3 |
| | 10 | 9.591034 | 50 | 9.626856 | 59 | 0.373144 | 9.964178 | 9 | 0 | |
| | 20 | 9.591084 | 49 | 9.626915 | 58 | 0.373085 | 9.964169 | 9 | 0 | |
| | 30 | 9.591133 | 50 | 9.626973 | 59 | 0.373027 | 9.964160 | 9 | 0 | |
| | 40 | 9.591183 | 50 | 9.627032 | 59 | 0.372968 | 9.964151 | 9 | 0 | |
| | 50 | 9.591233 | 49 | 9.627090 | 58 | 0.372910 | 9.964142 | 9 | 0 | |
| 58 | 0 | 9.591282 | 50 | 9.627149 | 59 | 0.372851 | 9.964133 | 9 | 0 | 2 |
| | 10 | 9.591332 | 50 | 9.627208 | 58 | 0.372792 | 9.964124 | 9 | 0 | |
| | 20 | 9.591382 | 49 | 9.627266 | 59 | 0.372734 | 9.964115 | 9 | 0 | |
| | 30 | 9.591431 | 50 | 9.627325 | 58 | 0.372675 | 9.964106 | 9 | 0 | |
| | 40 | 9.591481 | 50 | 9.627383 | 59 | 0.372617 | 9.964098 | 9 | 0 | |
| | 50 | 9.591531 | 49 | 9.627442 | 59 | 0.372558 | 9.964089 | 9 | 0 | |
| 59 | 0 | 9.591580 | 50 | 9.627501 | 58 | 0.372499 | 9.964080 | 9 | 0 | 1 |
| | 10 | 9.591630 | 50 | 9.627559 | 59 | 0.372441 | 9.964071 | 9 | 0 | |
| | 20 | 9.591680 | 49 | 9.627618 | 58 | 0.372382 | 9.964062 | 9 | 0 | |
| | 30 | 9.591729 | 50 | 9.627676 | 59 | 0.372324 | 9.964053 | 9 | 0 | |
| | 40 | 9.591779 | 50 | 9.627735 | 59 | 0.372265 | 9.964044 | 9 | 0 | |
| | 50 | 9.591828 | 49 | 9.627793 | 58 | 0.372207 | 9.964035 | 9 | 0 | |
| 60 | 0 | 9.591878 | 50 | 9.627852 | 59 | 0.372148 | 9.964026 | 9 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.591878 | 50 | 9.627852 | 58 | 0.372148 | 9.964026 | 9 | 0 | 60 |
| | 10 | 9.591928 | 49 | 9.627910 | 59 | 0.372090 | 9.964017 | 9 | 50 | |
| | 20 | 9.591977 | 49 | 9.627969 | 59 | 0.372031 | 9.964008 | 9 | 40 | |
| | 30 | 9.592027 | 49 | 9.628028 | 59 | 0.371972 | 9.963999 | 9 | 30 | |
| | 40 | 9.592076 | 49 | 9.628086 | 58 | 0.371914 | 9.963990 | 9 | 20 | |
| 59 | 50 | 9.592126 | 50 | 9.628145 | 59 | 0.371855 | 9.963981 | 9 | 10 | |
| 1 5.9 | | | | | | | | | | |
| 2 11.8 | 1 | 9.592176 | 49 | 9.628203 | 59 | 0.371797 | 9.963972 | 9 | 0 | 59 |
| 3 17.7 | | | | | | | | | | |
| 4 23.6 | 10 | 9.592225 | 50 | 9.628262 | 58 | 0.371738 | 9.963963 | 9 | 50 | |
| 5 29.5 | 20 | 9.592275 | 49 | 9.628320 | 58 | 0.371680 | 9.963955 | 9 | 40 | |
| 6 35.4 | 30 | 9.592324 | 49 | 9.628379 | 59 | 0.371621 | 9.963946 | 9 | 30 | |
| 7 41.3 | 40 | 9.592374 | 50 | 9.628437 | 58 | 0.371563 | 9.963937 | 9 | 20 | |
| 8 47.2 | 50 | 9.592423 | 49 | 9.628496 | 59 | 0.371504 | 9.963928 | 9 | 10 | |
| 9 53.1 | 2 | 9.592473 | 50 | 9.628554 | 58 | 0.371446 | 9.963919 | 9 | 0 | 58 |
| | | | | | | | | | | |
| | 10 | 9.592522 | 49 | 9.628612 | 59 | 0.371388 | 9.963910 | 9 | 50 | |
| | 20 | 9.592572 | 50 | 9.628671 | 59 | 0.371329 | 9.963901 | 9 | 40 | |
| | 30 | 9.592621 | 50 | 9.628729 | 58 | 0.371271 | 9.963892 | 9 | 30 | |
| | 40 | 9.592671 | 49 | 9.628788 | 59 | 0.371212 | 9.963883 | 9 | 20 | |
| | 50 | 9.592720 | 49 | 9.628846 | 58 | 0.371154 | 9.963874 | 9 | 10 | |
| 58 | 3 | 9.592770 | 49 | 9.628905 | 59 | 0.371095 | 9.963865 | 9 | 0 | 57 |
| 1 5.8 | | | | | | | | | | |
| 2 11.6 | 10 | 9.592819 | 50 | 9.628963 | 58 | 0.371037 | 9.963856 | 9 | 50 | |
| 3 17.4 | 20 | 9.592869 | 49 | 9.629022 | 59 | 0.370978 | 9.963847 | 9 | 40 | |
| 4 23.2 | 30 | 9.592918 | 50 | 9.629080 | 58 | 0.370920 | 9.963838 | 9 | 30 | |
| 5 29.0 | 40 | 9.592968 | 49 | 9.629138 | 58 | 0.370862 | 9.963829 | 9 | 20 | |
| 6 34.8 | 50 | 9.593017 | 49 | 9.629197 | 59 | 0.370803 | 9.963820 | 9 | 10 | |
| 7 40.6 | 4 | 9.593067 | 49 | 9.629255 | 58 | 0.370745 | 9.963811 | 9 | 0 | 56 |
| 8 46.4 | | | | | | | | | | |
| 9 52.2 | 10 | 9.593116 | 49 | 9.629314 | 59 | 0.370686 | 9.963802 | 9 | 50 | |
| | 20 | 9.593165 | 49 | 9.629372 | 58 | 0.370628 | 9.963793 | 9 | 40 | |
| | 30 | 9.593215 | 50 | 9.629431 | 59 | 0.370569 | 9.963784 | 9 | 30 | |
| | 40 | 9.593264 | 50 | 9.629489 | 58 | 0.370511 | 9.963775 | 9 | 20 | |
| | 50 | 9.593314 | 49 | 9.629547 | 58 | 0.370453 | 9.963766 | 9 | 10 | |
| * | 5 | 9.593363 | 49 | 9.629606 | 59 | 0.370394 | 9.963757 | 9 | 0 | 55 |
| | | | | | | | | | | |
| | 10 | 9.593412 | 50 | 9.629664 | 58 | 0.370336 | 9.963748 | 9 | 50 | |
| | 20 | 9.593462 | 49 | 9.629722 | 58 | 0.370278 | 9.963739 | 9 | 40 | |
| | 30 | 9.593511 | 49 | 9.629781 | 59 | 0.370219 | 9.963730 | 9 | 30 | |
| | 40 | 9.593561 | 50 | 9.629839 | 58 | 0.370161 | 9.963722 | 9 | 20 | |
| 50 | 50 | 9.593610 | 49 | 9.629897 | 58 | 0.370103 | 9.963713 | 9 | 10 | |
| 1 5.0 | 6 | 9.593659 | 49 | 9.629956 | 59 | 0.370044 | 9.963704 | 9 | 0 | 54 |
| 2 10.0 | | | | | | | | | | |
| 3 15.0 | 10 | 9.593709 | 49 | 9.630014 | 58 | 0.369986 | 9.963695 | 9 | 50 | |
| 4 20.0 | 20 | 9.593758 | 49 | 9.630073 | 59 | 0.369927 | 9.963686 | 9 | 40 | |
| 5 25.0 | 30 | 9.593807 | 49 | 9.630131 | 58 | 0.369869 | 9.963677 | 9 | 30 | |
| 6 30.0 | 40 | 9.593857 | 50 | 9.630189 | 58 | 0.369811 | 9.963668 | 9 | 20 | |
| 7 35.0 | 50 | 9.593906 | 49 | 9.630247 | 58 | 0.369753 | 9.963659 | 9 | 10 | |
| 8 40.0 | 7 | 9.593955 | 49 | 9.630306 | 59 | 0.369694 | 9.963650 | 9 | 0 | 53 |
| 9 45.0 | | | | | | | | | | |
| | 10 | 9.594005 | 49 | 9.630364 | 58 | 0.369636 | 9.963641 | 9 | 50 | |
| | 20 | 9.594054 | 49 | 9.630422 | 58 | 0.369578 | 9.963632 | 9 | 40 | |
| | 30 | 9.594103 | 49 | 9.630481 | 59 | 0.369519 | 9.963623 | 9 | 30 | |
| | 40 | 9.594153 | 50 | 9.630539 | 58 | 0.369461 | 9.963614 | 9 | 20 | |
| | 50 | 9.594202 | 49 | 9.630597 | 58 | 0.369403 | 9.963605 | 9 | 10 | |
| | 8 | 9.594251 | 49 | 9.630656 | 59 | 0.369344 | 9.963596 | 9 | 0 | 52 |
| | | | | | | | | | | |
| | 10 | 9.594301 | 50 | 9.630714 | 58 | 0.369286 | 9.963587 | 9 | 50 | |
| 49 | 20 | 9.594350 | 49 | 9.630772 | 58 | 0.369228 | 9.963578 | 9 | 40 | |
| 1 4.9 | 30 | 9.594399 | 49 | 9.630830 | 58 | 0.369170 | 9.963569 | 9 | 30 | |
| 2 9.8 | 40 | 9.594448 | 50 | 9.630889 | 59 | 0.369111 | 9.963560 | 9 | 20 | |
| 3 14.7 | 50 | 9.594498 | 49 | 9.630947 | 58 | 0.369053 | 9.963551 | 9 | 10 | |
| 4 19.6 | | | | | | | | | | |
| 5 24.5 | 9 | 9.594547 | 49 | 9.631005 | 58 | 0.368995 | 9.963542 | 9 | 0 | 51 |
| 6 29.4 | | | | | | | | | | |
| 7 34.3 | 10 | 9.594596 | 49 | 9.631063 | 58 | 0.368937 | 9.963533 | 9 | 50 | |
| 8 39.2 | 20 | 9.594645 | 49 | 9.631122 | 59 | 0.368878 | 9.963524 | 9 | 40 | |
| 9 44.1 | 30 | 9.594695 | 50 | 9.631180 | 58 | 0.368820 | 9.963515 | 9 | 30 | |
| | 40 | 9.594744 | 49 | 9.631238 | 58 | 0.368762 | 9.963506 | 9 | 20 | |
| | 50 | 9.594793 | 49 | 9.631296 | 58 | 0.368704 | 9.963497 | 9 | 10 | |
| | 10 | 9.594842 | 49 | 9.631355 | 59 | 0.368645 | 9.963488 | 9 | 0 | 50 |
| | | | | | | | | | | |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.594842 | 49 | 9.631355 | 58 | 0.368645 | 9.963488 | 9 | 0 | 50 |
| | 10 | 9.594891 | 49 | 9.631413 | 58 | 0.368587 | 9.963479 | 9 | 50 | |
| | 20 | 9.594941 | 49 | 9.631471 | 58 | 0.368529 | 9.963470 | 9 | 40 | |
| | 30 | 9.594990 | 49 | 9.631529 | 58 | 0.368471 | 9.963461 | 9 | 30 | |
| | 40 | 9.595039 | 49 | 9.631587 | 58 | 0.368413 | 9.963452 | 9 | 20 | |
| | 50 | 9.595088 | 49 | 9.631646 | 58 | 0.368354 | 9.963443 | 9 | 10 | |
| 11 | 0 | 9.595137 | 49 | 9.631704 | 58 | 0.368296 | 9.963434 | 9 | 0 | 49 |
| | 10 | 9.595186 | 49 | 9.631762 | 58 | 0.368238 | 9.963425 | 9 | 50 | |
| | 20 | 9.595236 | 49 | 9.631820 | 58 | 0.368180 | 9.963416 | 9 | 40 | |
| | 30 | 9.595285 | 49 | 9.631878 | 58 | 0.368122 | 9.963407 | 9 | 30 | |
| | 40 | 9.595334 | 49 | 9.631936 | 58 | 0.368064 | 9.963398 | 9 | 20 | |
| | 50 | 9.595383 | 49 | 9.631995 | 58 | 0.368005 | 9.963388 | 9 | 10 | |
| 12 | 0 | 9.595432 | 49 | 9.632053 | 58 | 0.367947 | 9.963379 | 9 | 0 | 48 |
| | 10 | 9.595481 | 49 | 9.632111 | 58 | 0.367889 | 9.963370 | 9 | 50 | |
| | 20 | 9.595530 | 49 | 9.632169 | 58 | 0.367831 | 9.963361 | 9 | 40 | |
| | 30 | 9.595580 | 49 | 9.632227 | 58 | 0.367773 | 9.963352 | 9 | 30 | |
| | 40 | 9.595629 | 49 | 9.632285 | 58 | 0.367715 | 9.963343 | 9 | 20 | |
| | 50 | 9.595678 | 49 | 9.632343 | 58 | 0.367657 | 9.963334 | 9 | 10 | |
| 13 | 0 | 9.595727 | 49 | 9.632402 | 58 | 0.367598 | 9.963325 | 9 | 0 | 47 |
| | 10 | 9.595776 | 49 | 9.632460 | 58 | 0.367540 | 9.963316 | 9 | 50 | |
| | 20 | 9.595825 | 49 | 9.632518 | 58 | 0.367482 | 9.963307 | 9 | 40 | |
| | 30 | 9.595874 | 49 | 9.632576 | 58 | 0.367424 | 9.963298 | 9 | 30 | |
| | 40 | 9.595923 | 49 | 9.632634 | 58 | 0.367366 | 9.963289 | 9 | 20 | |
| | 50 | 9.595972 | 49 | 9.632692 | 58 | 0.367308 | 9.963280 | 9 | 10 | |
| 14 | 0 | 9.596021 | 49 | 9.632750 | 58 | 0.367250 | 9.963271 | 9 | 0 | 46 |
| | 10 | 9.596070 | 49 | 9.632808 | 58 | 0.367192 | 9.963262 | 9 | 50 | |
| | 20 | 9.596119 | 49 | 9.632866 | 58 | 0.367134 | 9.963253 | 9 | 40 | |
| | 30 | 9.596168 | 49 | 9.632924 | 58 | 0.367076 | 9.963244 | 9 | 30 | |
| | 40 | 9.596217 | 49 | 9.632982 | 58 | 0.367018 | 9.963235 | 9 | 20 | |
| | 50 | 9.596266 | 49 | 9.633040 | 58 | 0.366960 | 9.963226 | 9 | 10 | |
| 15 | 0 | 9.596315 | 49 | 9.633099 | 58 | 0.366901 | 9.963217 | 9 | 0 | 45 |
| | 10 | 9.596364 | 49 | 9.633157 | 58 | 0.366843 | 9.963208 | 9 | 50 | |
| | 20 | 9.596413 | 49 | 9.633215 | 58 | 0.366785 | 9.963199 | 9 | 40 | |
| | 30 | 9.596462 | 49 | 9.633273 | 58 | 0.366727 | 9.963190 | 9 | 30 | |
| | 40 | 9.596511 | 49 | 9.633331 | 58 | 0.366669 | 9.963181 | 9 | 20 | |
| | 50 | 9.596560 | 49 | 9.633389 | 58 | 0.366611 | 9.963172 | 9 | 10 | |
| 16 | 0 | 9.596609 | 49 | 9.633447 | 58 | 0.366553 | 9.963163 | 9 | 0 | 44 |
| | 10 | 9.596658 | 49 | 9.633505 | 58 | 0.366495 | 9.963153 | 9 | 50 | |
| | 20 | 9.596707 | 49 | 9.633563 | 58 | 0.366437 | 9.963144 | 9 | 40 | |
| | 30 | 9.596756 | 49 | 9.633621 | 58 | 0.366379 | 9.963135 | 9 | 30 | |
| | 40 | 9.596805 | 49 | 9.633679 | 58 | 0.366321 | 9.963126 | 9 | 20 | |
| | 50 | 9.596854 | 49 | 9.633737 | 58 | 0.366263 | 9.963117 | 9 | 10 | |
| 17 | 0 | 9.596903 | 49 | 9.633795 | 58 | 0.366205 | 9.963108 | 9 | 0 | 43 |
| | 10 | 9.596952 | 49 | 9.633853 | 58 | 0.366147 | 9.963099 | 9 | 50 | |
| | 20 | 9.597001 | 49 | 9.633911 | 58 | 0.366089 | 9.963090 | 9 | 40 | |
| | 30 | 9.597050 | 49 | 9.633969 | 58 | 0.366031 | 9.963081 | 9 | 30 | |
| | 40 | 9.597099 | 49 | 9.634027 | 58 | 0.365973 | 9.963072 | 9 | 20 | |
| | 50 | 9.597148 | 48 | 9.634085 | 58 | 0.365915 | 9.963063 | 9 | 10 | |
| 18 | 0 | 9.597196 | 48 | 9.634143 | 58 | 0.365857 | 9.963054 | 9 | 0 | 42 |
| | 10 | 9.597245 | 49 | 9.634201 | 58 | 0.365799 | 9.963045 | 9 | 50 | |
| | 20 | 9.597294 | 49 | 9.634259 | 58 | 0.365741 | 9.963036 | 9 | 40 | |
| | 30 | 9.597343 | 49 | 9.634316 | 57 | 0.365684 | 9.963027 | 9 | 30 | |
| | 40 | 9.597392 | 49 | 9.634374 | 58 | 0.365626 | 9.963018 | 9 | 20 | |
| | 50 | 9.597441 | 49 | 9.634432 | 58 | 0.365568 | 9.963008 | 9 | 10 | |
| 19 | 0 | 9.597490 | 49 | 9.634490 | 58 | 0.365510 | 9.962999 | 9 | 0 | 41 |
| | 10 | 9.597539 | 49 | 9.634548 | 58 | 0.365452 | 9.962990 | 9 | 50 | |
| | 20 | 9.597587 | 48 | 9.634606 | 58 | 0.365394 | 9.962981 | 9 | 40 | |
| | 30 | 9.597636 | 49 | 9.634664 | 58 | 0.365336 | 9.962972 | 9 | 30 | |
| | 40 | 9.597685 | 49 | 9.634722 | 58 | 0.365278 | 9.962963 | 9 | 20 | |
| | 50 | 9.597734 | 49 | 9.634780 | 58 | 0.365220 | 9.962954 | 9 | 10 | |
| 20 | 0 | 9.597783 | 49 | 9.634838 | 58 | 0.365162 | 9.962945 | 9 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

58

1 5.8

2 11.6

3 17.4

4 23.2

5 29.0

6 34.8

7 40.6

8 46.4

9 52.2

57

1 5.7

2 11.4

3 17.1

4 22.8

5 28.5

6 34.2

7 39.9

8 45.6

9 51.3

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49

1 4.9

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5 24.5

6 29.4

7 34.3

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1 4.8

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5 24.0

6 28.8

7 33.6

8 38.4

9 43.2

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|------|----------|----------|----|----|----|
| | 20 | 0 9.597783 | 48 | 9.634838 | 58 | 0.365162 | 9.962945 | 9 | 0 | 40 |
| | 10 | 9.597831 | 49 | 9.634896 | 58 | 0.365104 | 9.962936 | 9 | 50 | |
| | 20 | 9.597880 | 49 | 9.634954 | 57 | 0.365046 | 9.962927 | 9 | 40 | |
| | 30 | 9.597929 | 49 | 9.635011 | 58 | 0.364988 | 9.962918 | 9 | 30 | |
| 58 | 40 | 9.597978 | 49 | 9.635069 | 58 | 0.364931 | 9.962909 | 9 | 20 | |
| 1 5.8 | 50 | 9.598027 | 49 | 9.635127 | 58 | 0.364873 | 9.962899 | 10 | 10 | |
| 2 11.6 | 21 | 0 9.598075 | 49 | 9.635185 | 58 | 0.364815 | 9.962890 | 9 | 0 | 39 |
| 3 17.4 | 10 | 9.598124 | 49 | 9.635243 | 58 | 0.364757 | 9.962881 | 9 | 50 | |
| 4 23.2 | 20 | 9.598173 | 49 | 9.635301 | 58 | 0.364699 | 9.962872 | 9 | 40 | |
| 5 29.0 | 30 | 9.598222 | 48 | 9.635359 | 57 | 0.364641 | 9.962863 | 9 | 30 | |
| 6 34.8 | 40 | 9.598270 | 48 | 9.635416 | 58 | 0.364584 | 9.962854 | 9 | 20 | |
| 7 40.6 | 50 | 9.598319 | 49 | 9.635474 | 58 | 0.364526 | 9.962845 | 9 | 10 | |
| 8 46.4 | 22 | 0 9.598368 | 49 | 9.635532 | 58 | 0.364468 | 9.962836 | 9 | 0 | 38 |
| 9 52.2 | 10 | 9.598417 | 48 | 9.635590 | 58 | 0.364410 | 9.962827 | 9 | 50 | |
| | 20 | 9.598465 | 48 | 9.635648 | 58 | 0.364352 | 9.962818 | 9 | 40 | |
| | 30 | 9.598514 | 49 | 9.635706 | 57 | 0.364294 | 9.962809 | 10 | 30 | |
| | 40 | 9.598563 | 49 | 9.635763 | 58 | 0.364237 | 9.962799 | 9 | 20 | |
| | 50 | 9.598612 | 49 | 9.635821 | 58 | 0.364179 | 9.962790 | 9 | 10 | |
| 57 | 23 | 0 9.598660 | 49 | 9.635879 | 58 | 0.364121 | 9.962781 | 9 | 0 | 37 |
| 1 5.7 | 10 | 9.598709 | 49 | 9.635937 | 58 | 0.364063 | 9.962772 | 9 | 50 | |
| 2 11.4 | 20 | 9.598758 | 48 | 9.635995 | 57 | 0.364005 | 9.962763 | 9 | 40 | |
| 3 17.1 | 30 | 9.598806 | 48 | 9.636052 | 58 | 0.363948 | 9.962754 | 9 | 30 | |
| 4 22.8 | 40 | 9.598855 | 49 | 9.636110 | 58 | 0.363890 | 9.962745 | 9 | 20 | |
| 5 28.5 | 50 | 9.598904 | 49 | 9.636168 | 58 | 0.363832 | 9.962736 | 9 | 10 | |
| 6 34.2 | 24 | 0 9.598952 | 49 | 9.636226 | 57 | 0.363774 | 9.962727 | 10 | 0 | 36 |
| 7 39.9 | 10 | 9.599001 | 49 | 9.636283 | 58 | 0.363717 | 9.962717 | 9 | 50 | |
| 8 45.6 | 20 | 9.599050 | 48 | 9.636341 | 58 | 0.363659 | 9.962708 | 9 | 40 | |
| 9 51.3 | 30 | 9.599098 | 49 | 9.636399 | 58 | 0.363601 | 9.962699 | 9 | 30 | |
| | 40 | 9.599147 | 48 | 9.636457 | 58 | 0.363543 | 9.962690 | 9 | 20 | |
| | 50 | 9.599195 | 49 | 9.636514 | 57 | 0.363486 | 9.962681 | 9 | 10 | |
| * | 25 | 0 9.599244 | 49 | 9.636572 | 58 | 0.363428 | 9.962672 | 9 | 0 | 35 |
| | 10 | 9.599293 | 48 | 9.636630 | 58 | 0.363370 | 9.962663 | 9 | 50 | |
| | 20 | 9.599341 | 48 | 9.636688 | 58 | 0.363312 | 9.962654 | 9 | 40 | |
| | 30 | 9.599390 | 48 | 9.636745 | 57 | 0.363255 | 9.962645 | 10 | 30 | |
| | 40 | 9.599438 | 49 | 9.636803 | 58 | 0.363197 | 9.962635 | 9 | 20 | |
| 49 | 50 | 9.599487 | 49 | 9.636861 | 58 | 0.363139 | 9.962626 | 9 | 10 | |
| 1 4.9 | 26 | 0 9.599536 | 48 | 9.636919 | 57 | 0.363081 | 9.962617 | 9 | 0 | 34 |
| 2 9.8 | 10 | 9.599584 | 49 | 9.636976 | 58 | 0.363024 | 9.962608 | 9 | 50 | |
| 3 14.7 | 20 | 9.599633 | 49 | 9.637034 | 58 | 0.362966 | 9.962599 | 9 | 40 | |
| 4 19.6 | 30 | 9.599681 | 48 | 9.637092 | 57 | 0.362908 | 9.962590 | 9 | 30 | |
| 5 24.5 | 40 | 9.599730 | 48 | 9.637149 | 58 | 0.362851 | 9.962581 | 9 | 20 | |
| 6 29.4 | 50 | 9.599778 | 49 | 9.637207 | 58 | 0.362793 | 9.962572 | 9 | 10 | |
| 7 34.3 | 27 | 0 9.599827 | 49 | 9.637265 | 57 | 0.362735 | 9.962562 | 10 | 0 | 33 |
| 8 39.2 | 10 | 9.599876 | 48 | 9.637322 | 58 | 0.362678 | 9.962553 | 9 | 50 | |
| 9 44.1 | 20 | 9.599924 | 48 | 9.637380 | 58 | 0.362620 | 9.962544 | 9 | 40 | |
| | 30 | 9.599973 | 49 | 9.637438 | 58 | 0.362562 | 9.962535 | 9 | 30 | |
| | 40 | 9.600021 | 48 | 9.637495 | 57 | 0.362505 | 9.962526 | 9 | 20 | |
| | 50 | 9.600070 | 48 | 9.637553 | 58 | 0.362447 | 9.962517 | 9 | 10 | |
| | 28 | 0 9.600118 | 49 | 9.637611 | 57 | 0.362389 | 9.962508 | 9 | 0 | 32 |
| 48 | 10 | 9.600167 | 48 | 9.637668 | 58 | 0.362332 | 9.962499 | 9 | 50 | |
| 1 4.8 | 20 | 9.600215 | 48 | 9.637726 | 58 | 0.362274 | 9.962489 | 9 | 40 | |
| 2 9.6 | 30 | 9.600264 | 49 | 9.637783 | 57 | 0.362217 | 9.962480 | 9 | 30 | |
| 3 14.4 | 40 | 9.600312 | 48 | 9.637841 | 58 | 0.362159 | 9.962471 | 9 | 20 | |
| 4 19.2 | 50 | 9.600361 | 49 | 9.637899 | 58 | 0.362101 | 9.962462 | 9 | 10 | |
| 5 24.0 | 29 | 0 9.600409 | 48 | 9.637956 | 57 | 0.362044 | 9.962453 | 9 | 0 | 31 |
| 6 28.8 | 10 | 9.600457 | 49 | 9.638014 | 58 | 0.361986 | 9.962444 | 9 | 50 | |
| 7 33.6 | 20 | 9.600506 | 49 | 9.638072 | 58 | 0.361928 | 9.962434 | 10 | 40 | |
| 8 38.4 | 30 | 9.600554 | 48 | 9.638129 | 57 | 0.361871 | 9.962425 | 9 | 30 | |
| 9 43.2 | 40 | 9.600603 | 48 | 9.638187 | 58 | 0.361813 | 9.962416 | 9 | 20 | |
| | 50 | 9.600651 | 49 | 9.638244 | 57 | 0.361756 | 9.962407 | 9 | 10 | |
| | 30 | 0 9.600700 | 49 | 9.638302 | 58 | 0.361698 | 9.962398 | 9 | 0 | 30 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.600700 | 48 | 9.638302 | 57 | 0.361698 | 9.962398 | 9 | 0 | 30 |
| | 10 | 9.600748 | 49 | 9.638359 | 58 | 0.361641 | 9.962389 | 10 | 50 | |
| | 20 | 9.600797 | 48 | 9.638417 | 58 | 0.361583 | 9.962379 | 9 | 40 | |
| | 30 | 9.600845 | 48 | 9.638475 | 57 | 0.361525 | 9.962370 | 9 | 30 | |
| | 40 | 9.600893 | 48 | 9.638532 | 58 | 0.361468 | 9.962361 | 9 | 20 | |
| | 50 | 9.600942 | 48 | 9.638590 | 57 | 0.361410 | 9.962352 | 9 | 10 | |
| 31 | 0 | 9.600990 | 48 | 9.638647 | 58 | 0.361353 | 9.962343 | 9 | 0 | 29 |
| | 10 | 9.601038 | 49 | 9.638705 | 57 | 0.361295 | 9.962334 | 10 | 50 | |
| | 20 | 9.601087 | 48 | 9.638762 | 58 | 0.361238 | 9.962325 | 9 | 40 | |
| | 30 | 9.601135 | 49 | 9.638820 | 57 | 0.361180 | 9.962315 | 10 | 30 | |
| | 40 | 9.601184 | 48 | 9.638877 | 58 | 0.361123 | 9.962306 | 9 | 20 | |
| | 50 | 9.601232 | 48 | 9.638935 | 57 | 0.361065 | 9.962297 | 9 | 10 | |
| 32 | 0 | 9.601280 | 49 | 9.638992 | 58 | 0.361008 | 9.962288 | 9 | 0 | 28 |
| | 10 | 9.601329 | 48 | 9.639050 | 57 | 0.360950 | 9.962279 | 10 | 50 | |
| | 20 | 9.601377 | 48 | 9.639107 | 58 | 0.360893 | 9.962269 | 9 | 40 | |
| | 30 | 9.601425 | 49 | 9.639165 | 57 | 0.360835 | 9.962260 | 10 | 30 | |
| | 40 | 9.601474 | 48 | 9.639222 | 58 | 0.360778 | 9.962251 | 9 | 20 | |
| | 50 | 9.601522 | 48 | 9.639280 | 57 | 0.360720 | 9.962242 | 9 | 10 | |
| 33 | 0 | 9.601570 | 49 | 9.639337 | 58 | 0.360663 | 9.962233 | 9 | 0 | 27 |
| | 10 | 9.601619 | 48 | 9.639395 | 57 | 0.360605 | 9.962224 | 10 | 50 | |
| | 20 | 9.601667 | 48 | 9.639452 | 58 | 0.360548 | 9.962214 | 9 | 40 | |
| | 30 | 9.601715 | 48 | 9.639510 | 57 | 0.360490 | 9.962205 | 10 | 30 | |
| | 40 | 9.601763 | 49 | 9.639567 | 58 | 0.360433 | 9.962196 | 9 | 20 | |
| | 50 | 9.601812 | 48 | 9.639625 | 57 | 0.360375 | 9.962187 | 9 | 10 | |
| 34 | 0 | 9.601860 | 48 | 9.639682 | 58 | 0.360318 | 9.962178 | 9 | 0 | 26 |
| | 10 | 9.601908 | 49 | 9.639740 | 57 | 0.360260 | 9.962169 | 10 | 50 | |
| | 20 | 9.601957 | 48 | 9.639797 | 58 | 0.360203 | 9.962159 | 9 | 40 | |
| | 30 | 9.602005 | 48 | 9.639855 | 57 | 0.360145 | 9.962150 | 10 | 30 | |
| | 40 | 9.602053 | 48 | 9.639912 | 57 | 0.360088 | 9.962141 | 9 | 20 | |
| | 50 | 9.602101 | 49 | 9.639969 | 58 | 0.360031 | 9.962132 | 9 | 10 | |
| 35 | 0 | 9.602150 | 48 | 9.640027 | 57 | 0.359973 | 9.962123 | 10 | 0 | 25 |
| | 10 | 9.602198 | 48 | 9.640084 | 58 | 0.359916 | 9.962113 | 9 | 50 | |
| | 20 | 9.602246 | 48 | 9.640142 | 57 | 0.359858 | 9.962104 | 9 | 40 | |
| | 30 | 9.602294 | 48 | 9.640199 | 58 | 0.359801 | 9.962095 | 9 | 30 | |
| | 40 | 9.602342 | 49 | 9.640257 | 57 | 0.359743 | 9.962086 | 10 | 20 | |
| | 50 | 9.602391 | 48 | 9.640314 | 57 | 0.359686 | 9.962077 | 9 | 10 | |
| 36 | 0 | 9.602439 | 48 | 9.640371 | 58 | 0.359628 | 9.962068 | 9 | 0 | 24 |
| | 10 | 9.602487 | 48 | 9.640429 | 57 | 0.359571 | 9.962059 | 9 | 50 | |
| | 20 | 9.602535 | 48 | 9.640486 | 58 | 0.359514 | 9.962049 | 9 | 40 | |
| | 30 | 9.602583 | 49 | 9.640544 | 57 | 0.359456 | 9.962040 | 10 | 30 | |
| | 40 | 9.602632 | 48 | 9.640601 | 57 | 0.359399 | 9.962031 | 9 | 20 | |
| | 50 | 9.602680 | 48 | 9.640658 | 58 | 0.359342 | 9.962021 | 9 | 10 | |
| 37 | 0 | 9.602728 | 48 | 9.640716 | 57 | 0.359284 | 9.962012 | 9 | 0 | 23 |
| | 10 | 9.602776 | 48 | 9.640773 | 57 | 0.359227 | 9.962003 | 9 | 50 | |
| | 20 | 9.602824 | 48 | 9.640830 | 58 | 0.359170 | 9.961994 | 10 | 40 | |
| | 30 | 9.602872 | 48 | 9.640888 | 57 | 0.359112 | 9.961985 | 9 | 30 | |
| | 40 | 9.602920 | 49 | 9.640945 | 57 | 0.359055 | 9.961976 | 10 | 20 | |
| | 50 | 9.602969 | 48 | 9.641002 | 58 | 0.358997 | 9.961967 | 9 | 10 | |
| 38 | 0 | 9.603017 | 48 | 9.641060 | 57 | 0.358940 | 9.961957 | 9 | 0 | 22 |
| | 10 | 9.603065 | 48 | 9.641117 | 57 | 0.358883 | 9.961948 | 10 | 50 | |
| | 20 | 9.603113 | 48 | 9.641174 | 58 | 0.358826 | 9.961939 | 9 | 40 | |
| | 30 | 9.603161 | 48 | 9.641232 | 57 | 0.358768 | 9.961929 | 10 | 30 | |
| | 40 | 9.603209 | 48 | 9.641289 | 57 | 0.358711 | 9.961920 | 9 | 20 | |
| | 50 | 9.603257 | 48 | 9.641346 | 58 | 0.358654 | 9.961911 | 9 | 10 | |
| 39 | 0 | 9.603305 | 48 | 9.641404 | 57 | 0.358596 | 9.961902 | 10 | 0 | 21 |
| | 10 | 9.603353 | 48 | 9.641461 | 57 | 0.358539 | 9.961892 | 9 | 50 | |
| | 20 | 9.603401 | 48 | 9.641518 | 58 | 0.358482 | 9.961883 | 10 | 40 | |
| | 30 | 9.603449 | 48 | 9.641575 | 57 | 0.358425 | 9.961874 | 9 | 30 | |
| | 40 | 9.603498 | 49 | 9.641633 | 57 | 0.358367 | 9.961865 | 10 | 20 | |
| | 50 | 9.603546 | 48 | 9.641690 | 57 | 0.358310 | 9.961856 | 9 | 10 | |
| 40 | 0 | 9.603594 | 48 | 9.641747 | 57 | 0.358253 | 9.961846 | 10 | 0 | 20 |

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7 32.9
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9 42.3

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9.603594 | 48 | 9.641747 | 58 | 0.358253 | 9.961846 | 9 | 0 | 20 |
| | 10 | 9.603642 | 48 | 9.641805 | 57 | 0.358195 | 9.961837 | 9 | 50 | |
| | 20 | 9.603690 | 48 | 9.641862 | 57 | 0.358138 | 9.961828 | 9 | 40 | |
| | 30 | 9.603738 | 48 | 9.641919 | 57 | 0.358081 | 9.961819 | 10 | 30 | |
| | 40 | 9.603786 | 48 | 9.641976 | 57 | 0.358024 | 9.961809 | 9 | 20 | |
| | 50 | 9.603834 | 48 | 9.642034 | 58 | 0.357966 | 9.961800 | 9 | 10 | |
| 41 | 0 | 9.603882 | 48 | 9.642091 | 57 | 0.357909 | 9.961791 | 9 | 0 | 19 |
| | 10 | 9.603930 | 48 | 9.642148 | 57 | 0.357852 | 9.961782 | 10 | 50 | |
| | 20 | 9.603978 | 48 | 9.642205 | 58 | 0.357795 | 9.961772 | 9 | 40 | |
| | 30 | 9.604026 | 48 | 9.642263 | 57 | 0.357737 | 9.961763 | 9 | 30 | |
| | 40 | 9.604074 | 48 | 9.642320 | 57 | 0.357680 | 9.961754 | 9 | 20 | |
| | 50 | 9.604122 | 48 | 9.642377 | 57 | 0.357623 | 9.961745 | 10 | 10 | |
| 42 | 0 | 9.604170 | 48 | 9.642434 | 57 | 0.357566 | 9.961735 | 9 | 0 | 18 |
| | 10 | 9.604218 | 48 | 9.642491 | 58 | 0.357509 | 9.961726 | 9 | 50 | |
| | 20 | 9.604266 | 47 | 9.642549 | 57 | 0.357451 | 9.961717 | 9 | 40 | |
| | 30 | 9.604313 | 48 | 9.642606 | 57 | 0.357394 | 9.961708 | 10 | 30 | |
| | 40 | 9.604361 | 48 | 9.642663 | 57 | 0.357337 | 9.961698 | 9 | 20 | |
| | 50 | 9.604409 | 48 | 9.642720 | 57 | 0.357280 | 9.961689 | 9 | 10 | |
| 43 | 0 | 9.604457 | 48 | 9.642777 | 57 | 0.357223 | 9.961680 | 9 | 0 | 17 |
| | 10 | 9.604505 | 48 | 9.642834 | 57 | 0.357166 | 9.961671 | 10 | 50 | |
| | 20 | 9.604553 | 48 | 9.642892 | 58 | 0.357108 | 9.961661 | 9 | 40 | |
| | 30 | 9.604601 | 48 | 9.642949 | 57 | 0.357051 | 9.961652 | 9 | 30 | |
| | 40 | 9.604649 | 48 | 9.643006 | 57 | 0.356994 | 9.961643 | 9 | 20 | |
| | 50 | 9.604697 | 48 | 9.643063 | 57 | 0.356937 | 9.961634 | 10 | 10 | |
| 44 | 0 | 9.604745 | 48 | 9.643120 | 57 | 0.356880 | 9.961624 | 9 | 0 | 16 |
| | 10 | 9.604793 | 48 | 9.643177 | 57 | 0.356823 | 9.961615 | 9 | 50 | |
| | 20 | 9.604841 | 48 | 9.643235 | 58 | 0.356765 | 9.961606 | 9 | 40 | |
| | 30 | 9.604888 | 47 | 9.643292 | 57 | 0.356708 | 9.961597 | 10 | 30 | |
| | 40 | 9.604936 | 48 | 9.643349 | 57 | 0.356651 | 9.961587 | 9 | 20 | |
| | 50 | 9.604984 | 48 | 9.643406 | 57 | 0.356594 | 9.961578 | 9 | 10 | |
| 45 | 0 | 9.605032 | 48 | 9.643463 | 57 | 0.356537 | 9.961569 | 9 | 0 | 15 |
| | 10 | 9.605080 | 48 | 9.643520 | 57 | 0.356480 | 9.961560 | 10 | 50 | |
| | 20 | 9.605128 | 48 | 9.643577 | 57 | 0.356423 | 9.961550 | 9 | 40 | |
| | 30 | 9.605176 | 48 | 9.643634 | 57 | 0.356366 | 9.961541 | 9 | 30 | |
| | 40 | 9.605223 | 47 | 9.643691 | 57 | 0.356309 | 9.961532 | 9 | 20 | |
| | 50 | 9.605271 | 48 | 9.643749 | 58 | 0.356251 | 9.961523 | 10 | 10 | |
| 46 | 0 | 9.605319 | 48 | 9.643806 | 57 | 0.356194 | 9.961513 | 9 | 0 | 14 |
| | 10 | 9.605367 | 48 | 9.643863 | 57 | 0.356137 | 9.961504 | 9 | 50 | |
| | 20 | 9.605415 | 48 | 9.643920 | 57 | 0.356080 | 9.961495 | 10 | 40 | |
| | 30 | 9.605462 | 47 | 9.643977 | 57 | 0.356023 | 9.961485 | 9 | 30 | |
| | 40 | 9.605510 | 48 | 9.644034 | 57 | 0.355966 | 9.961476 | 9 | 20 | |
| | 50 | 9.605558 | 48 | 9.644091 | 57 | 0.355909 | 9.961467 | 9 | 10 | |
| 47 | 0 | 9.605606 | 48 | 9.644148 | 57 | 0.355852 | 9.961458 | 10 | 0 | 13 |
| | 10 | 9.605654 | 48 | 9.644205 | 57 | 0.355795 | 9.961449 | 9 | 50 | |
| | 20 | 9.605701 | 47 | 9.644262 | 57 | 0.355738 | 9.961439 | 9 | 40 | |
| | 30 | 9.605749 | 48 | 9.644319 | 57 | 0.355681 | 9.961430 | 9 | 30 | |
| | 40 | 9.605797 | 48 | 9.644376 | 57 | 0.355624 | 9.961421 | 9 | 20 | |
| | 50 | 9.605845 | 48 | 9.644433 | 57 | 0.355567 | 9.961411 | 10 | 10 | |
| 48 | 0 | 9.605892 | 47 | 9.644490 | 57 | 0.355510 | 9.961402 | 9 | 0 | 12 |
| | 10 | 9.605940 | 48 | 9.644547 | 57 | 0.355453 | 9.961393 | 9 | 50 | |
| | 20 | 9.605988 | 48 | 9.644604 | 57 | 0.355396 | 9.961383 | 10 | 40 | |
| | 30 | 9.606035 | 47 | 9.644661 | 57 | 0.355339 | 9.961374 | 9 | 30 | |
| | 40 | 9.606083 | 48 | 9.644718 | 57 | 0.355282 | 9.961365 | 9 | 20 | |
| | 50 | 9.606131 | 48 | 9.644775 | 57 | 0.355225 | 9.961356 | 9 | 10 | |
| 49 | 0 | 9.606179 | 48 | 9.644832 | 57 | 0.355168 | 9.961346 | 10 | 0 | 11 |
| | 10 | 9.606226 | 47 | 9.644889 | 57 | 0.355111 | 9.961337 | 9 | 50 | |
| | 20 | 9.606274 | 48 | 9.644946 | 57 | 0.355054 | 9.961328 | 10 | 40 | |
| | 30 | 9.606322 | 48 | 9.645003 | 57 | 0.354997 | 9.961318 | 9 | 30 | |
| | 40 | 9.606370 | 47 | 9.645060 | 57 | 0.354940 | 9.961309 | 9 | 20 | |
| | 50 | 9.606418 | 48 | 9.645117 | 57 | 0.354883 | 9.961300 | 9 | 10 | |
| 50 | 0 | 9.606466 | 48 | 9.645174 | 57 | 0.354826 | 9.961290 | 10 | 0 | 10 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.606465 | | 9.645174 | | 0.354826 | 9.961290 | | 0 | 10 |
| | 10 | 9.606512 | 47 | 9.645231 | 57 | 0.354769 | 9.961281 | 9 | 50 | |
| | 20 | 9.606560 | 48 | 9.645288 | 57 | 0.354712 | 9.961272 | 9 | 40 | |
| | 30 | 9.606608 | 48 | 9.645345 | 57 | 0.354655 | 9.961263 | 9 | 30 | |
| | 40 | 9.606655 | 47 | 9.645402 | 57 | 0.354598 | 9.961253 | 10 | 20 | |
| | 50 | 9.606703 | 48 | 9.645459 | 57 | 0.354541 | 9.961244 | 9 | 10 | |
| 51 | 0 | 9.606751 | | 9.645516 | | 0.354484 | 9.961235 | | 0 | 9 |
| | 10 | 9.606798 | 47 | 9.645573 | 57 | 0.354427 | 9.961225 | 10 | 50 | |
| | 20 | 9.606846 | 47 | 9.645630 | 57 | 0.354370 | 9.961216 | 9 | 40 | |
| | 30 | 9.606893 | 47 | 9.645687 | 57 | 0.354313 | 9.961207 | 9 | 30 | |
| | 40 | 9.606941 | 48 | 9.645744 | 57 | 0.354256 | 9.961197 | 10 | 20 | |
| | 50 | 9.606989 | 48 | 9.645801 | 57 | 0.354199 | 9.961188 | 9 | 10 | |
| 52 | 0 | 9.607036 | | 9.645857 | | 0.354143 | 9.961179 | | 0 | 8 |
| | 10 | 9.607084 | 47 | 9.645914 | 57 | 0.354086 | 9.961169 | 10 | 50 | |
| | 20 | 9.607131 | 48 | 9.645971 | 57 | 0.354029 | 9.961160 | 9 | 40 | |
| | 30 | 9.607179 | 48 | 9.646028 | 57 | 0.353972 | 9.961151 | 9 | 30 | |
| | 40 | 9.607227 | 47 | 9.646085 | 57 | 0.353915 | 9.961141 | 10 | 20 | |
| | 50 | 9.607274 | 48 | 9.646142 | 57 | 0.353858 | 9.961132 | 9 | 10 | |
| 53 | 0 | 9.607322 | | 9.646199 | | 0.353801 | 9.961123 | | 0 | 7 |
| | 10 | 9.607369 | 47 | 9.646256 | 57 | 0.353744 | 9.961113 | 10 | 50 | |
| | 20 | 9.607417 | 47 | 9.646313 | 57 | 0.353687 | 9.961104 | 9 | 40 | |
| | 30 | 9.607464 | 48 | 9.646369 | 56 | 0.353631 | 9.961095 | 9 | 30 | |
| | 40 | 9.607512 | 48 | 9.646426 | 57 | 0.353574 | 9.961086 | 9 | 20 | |
| | 50 | 9.607559 | 47 | 9.646483 | 57 | 0.353517 | 9.961076 | 10 | 10 | |
| 54 | 0 | 9.607607 | | 9.646540 | | 0.353460 | 9.961067 | | 0 | 6 |
| | 10 | 9.607654 | 47 | 9.646597 | 57 | 0.353403 | 9.961058 | 9 | 50 | |
| | 20 | 9.607702 | 47 | 9.646654 | 57 | 0.353346 | 9.961048 | 10 | 40 | |
| | 30 | 9.607749 | 47 | 9.646710 | 56 | 0.353290 | 9.961039 | 9 | 30 | |
| | 40 | 9.607797 | 48 | 9.646767 | 57 | 0.353233 | 9.961030 | 9 | 20 | |
| | 50 | 9.607844 | 48 | 9.646824 | 57 | 0.353176 | 9.961020 | 10 | 10 | |
| 55 | 0 | 9.607892 | | 9.646881 | | 0.353119 | 9.961011 | | 0 | 5 |
| | 10 | 9.607939 | 47 | 9.646938 | 57 | 0.353062 | 9.961002 | 9 | 50 | |
| | 20 | 9.607987 | 48 | 9.646995 | 57 | 0.353005 | 9.960992 | 10 | 40 | |
| | 30 | 9.608034 | 47 | 9.647051 | 56 | 0.352949 | 9.960983 | 9 | 30 | |
| | 40 | 9.608082 | 48 | 9.647108 | 57 | 0.352892 | 9.960973 | 10 | 20 | |
| | 50 | 9.608129 | 47 | 9.647165 | 57 | 0.352835 | 9.960964 | 9 | 10 | |
| 56 | 0 | 9.608177 | | 9.647222 | | 0.352778 | 9.960955 | | 0 | 4 |
| | 10 | 9.608224 | 47 | 9.647279 | 57 | 0.352721 | 9.960945 | 10 | 50 | |
| | 20 | 9.608271 | 48 | 9.647335 | 56 | 0.352665 | 9.960936 | 9 | 40 | |
| | 30 | 9.608319 | 47 | 9.647392 | 57 | 0.352608 | 9.960927 | 9 | 30 | |
| | 40 | 9.608366 | 48 | 9.647449 | 57 | 0.352551 | 9.960917 | 10 | 20 | |
| | 50 | 9.608414 | 47 | 9.647506 | 57 | 0.352494 | 9.960908 | 9 | 10 | |
| 57 | 0 | 9.608461 | | 9.647562 | | 0.352438 | 9.960899 | | 0 | 3 |
| | 10 | 9.608508 | 47 | 9.647619 | 57 | 0.352381 | 9.960889 | 10 | 50 | |
| | 20 | 9.608556 | 48 | 9.647676 | 57 | 0.352324 | 9.960880 | 9 | 40 | |
| | 30 | 9.608603 | 47 | 9.647733 | 57 | 0.352267 | 9.960871 | 9 | 30 | |
| | 40 | 9.608651 | 48 | 9.647789 | 56 | 0.352211 | 9.960861 | 10 | 20 | |
| | 50 | 9.608698 | 47 | 9.647846 | 57 | 0.352154 | 9.960852 | 9 | 10 | |
| 58 | 0 | 9.608745 | | 9.647903 | | 0.352097 | 9.960843 | | 0 | 2 |
| | 10 | 9.608793 | 48 | 9.647960 | 57 | 0.352040 | 9.960833 | 10 | 50 | |
| | 20 | 9.608840 | 47 | 9.648016 | 56 | 0.351984 | 9.960824 | 9 | 40 | |
| | 30 | 9.608887 | 47 | 9.648073 | 57 | 0.351927 | 9.960814 | 10 | 30 | |
| | 40 | 9.608935 | 48 | 9.648130 | 57 | 0.351870 | 9.960805 | 9 | 20 | |
| | 50 | 9.608982 | 47 | 9.648186 | 56 | 0.351814 | 9.960796 | 9 | 10 | |
| 59 | 0 | 9.609029 | | 9.648243 | | 0.351757 | 9.960786 | | 0 | 1 |
| | 10 | 9.609077 | 48 | 9.648300 | 57 | 0.351700 | 9.960777 | 9 | 50 | |
| | 20 | 9.609124 | 47 | 9.648356 | 56 | 0.351644 | 9.960768 | 9 | 40 | |
| | 30 | 9.609171 | 47 | 9.648413 | 57 | 0.351587 | 9.960758 | 10 | 30 | |
| | 40 | 9.609219 | 48 | 9.648470 | 57 | 0.351530 | 9.960749 | 9 | 20 | |
| | 50 | 9.609266 | 47 | 9.648526 | 56 | 0.351474 | 9.960740 | 9 | 10 | |
| 60 | 0 | 9.609313 | | 9.648583 | | 0.351417 | 9.960730 | | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|-----|----------|------|----------|------|----------|----------|----|----|----|
| | 0 | 0 | 9.609313 | 48 | 9.648583 | 57 | 0.351417 | 9.960730 | 9 | 0 | 60 |
| | | 10 | 9.609361 | 47 | 9.648610 | 56 | 0.351360 | 9.960721 | 10 | 50 | |
| | | 20 | 9.609408 | 47 | 9.648696 | 57 | 0.351304 | 9.960711 | 9 | 40 | |
| | | 30 | 9.609455 | 47 | 9.648753 | 57 | 0.351247 | 9.960702 | 9 | 30 | |
| 57 | | 40 | 9.609502 | 48 | 9.648810 | 56 | 0.351190 | 9.960693 | 9 | 20 | |
| 1 5.7 | | 50 | 9.609550 | 47 | 9.648866 | 57 | 0.351134 | 9.960683 | 10 | 10 | |
| 2 11.4 | 1 | 0 | 9.609597 | 47 | 9.648923 | 57 | 0.351077 | 9.960674 | 9 | 0 | 59 |
| 3 17.1 | | 10 | 9.609644 | 47 | 9.648980 | 57 | 0.351020 | 9.960665 | 9 | 50 | |
| 4 22.8 | | 20 | 9.609691 | 47 | 9.649036 | 56 | 0.350964 | 9.960655 | 10 | 40 | |
| 5 28.5 | | 30 | 9.609739 | 48 | 9.649093 | 57 | 0.350907 | 9.960646 | 9 | 30 | |
| 6 34.2 | | 40 | 9.609786 | 47 | 9.649150 | 57 | 0.350850 | 9.960636 | 10 | 20 | |
| 7 39.9 | | 50 | 9.609833 | 47 | 9.649206 | 56 | 0.350794 | 9.960627 | 9 | 10 | |
| 8 45.6 | 2 | 0 | 9.609880 | 47 | 9.649263 | 57 | 0.350737 | 9.960618 | 9 | 0 | 58 |
| 9 51.3 | | 10 | 9.609928 | 48 | 9.649319 | 56 | 0.350681 | 9.960608 | 10 | 50 | |
| | | 20 | 9.609975 | 47 | 9.649376 | 57 | 0.350624 | 9.960599 | 9 | 40 | |
| | | 30 | 9.610022 | 47 | 9.649433 | 56 | 0.350567 | 9.960589 | 10 | 30 | |
| | | 40 | 9.610069 | 47 | 9.649489 | 57 | 0.350511 | 9.960580 | 9 | 20 | |
| | | 50 | 9.610116 | 47 | 9.649546 | 57 | 0.350454 | 9.960571 | 9 | 10 | |
| 56 | 3 | 0 | 9.610164 | 48 | 9.649602 | 56 | 0.350398 | 9.960561 | 10 | 0 | 57 |
| 1 5.6 | | 10 | 9.610211 | 47 | 9.649659 | 57 | 0.350341 | 9.960552 | 9 | 50 | |
| 2 11.2 | | 20 | 9.610258 | 47 | 9.649715 | 56 | 0.350285 | 9.960542 | 10 | 40 | |
| 3 16.8 | | 30 | 9.610305 | 47 | 9.649772 | 57 | 0.350228 | 9.960533 | 9 | 30 | |
| 4 22.4 | | 40 | 9.610352 | 47 | 9.649829 | 57 | 0.350171 | 9.960524 | 9 | 20 | |
| 5 28.0 | | 50 | 9.610399 | 47 | 9.649885 | 56 | 0.350115 | 9.960514 | 10 | 10 | |
| 6 33.6 | 4 | 0 | 9.610447 | 48 | 9.649942 | 57 | 0.350058 | 9.960505 | 9 | 0 | 56 |
| 7 39.2 | | 10 | 9.610494 | 47 | 9.649998 | 56 | 0.350002 | 9.960495 | 10 | 50 | |
| 8 44.8 | | 20 | 9.610541 | 47 | 9.650055 | 57 | 0.349945 | 9.960486 | 9 | 40 | |
| 9 50.4 | | 30 | 9.610588 | 47 | 9.650111 | 57 | 0.349889 | 9.960477 | 9 | 30 | |
| | | 40 | 9.610635 | 47 | 9.650168 | 57 | 0.349832 | 9.960467 | 10 | 20 | |
| | | 50 | 9.610682 | 47 | 9.650224 | 56 | 0.349776 | 9.960458 | 9 | 10 | |
| * | 5 | 0 | 9.610729 | 47 | 9.650281 | 57 | 0.349719 | 9.960448 | 10 | 0 | 55 |
| | | 10 | 9.610776 | 47 | 9.650337 | 56 | 0.349663 | 9.960439 | 9 | 50 | |
| | | 20 | 9.610823 | 47 | 9.650394 | 57 | 0.349606 | 9.960430 | 9 | 40 | |
| | | 30 | 9.610871 | 48 | 9.650450 | 56 | 0.349550 | 9.960420 | 10 | 30 | |
| | | 40 | 9.610918 | 47 | 9.650507 | 57 | 0.349493 | 9.960411 | 9 | 20 | |
| 48 | | 50 | 9.610965 | 47 | 9.650563 | 56 | 0.349437 | 9.960401 | 10 | 10 | |
| 1 4.8 | 6 | 0 | 9.611012 | 47 | 9.650620 | 57 | 0.349380 | 9.960392 | 9 | 0 | 54 |
| 2 9.6 | | 10 | 9.611059 | 47 | 9.650676 | 56 | 0.349324 | 9.960382 | 10 | 50 | |
| 3 14.4 | | 20 | 9.611106 | 47 | 9.650733 | 57 | 0.349267 | 9.960373 | 9 | 40 | |
| 4 19.2 | | 30 | 9.611153 | 47 | 9.650789 | 56 | 0.349211 | 9.960364 | 9 | 30 | |
| 5 24.0 | | 40 | 9.611200 | 47 | 9.650846 | 57 | 0.349154 | 9.960354 | 10 | 20 | |
| 6 28.8 | | 50 | 9.611247 | 47 | 9.650902 | 56 | 0.349098 | 9.960345 | 9 | 10 | |
| 7 33.6 | 7 | 0 | 9.611294 | 47 | 9.650959 | 57 | 0.349041 | 9.960335 | 10 | 0 | 53 |
| 8 38.4 | | 10 | 9.611341 | 47 | 9.651015 | 56 | 0.348985 | 9.960326 | 9 | 50 | |
| 9 43.2 | | 20 | 9.611388 | 47 | 9.651072 | 57 | 0.348928 | 9.960317 | 9 | 40 | |
| | | 30 | 9.611435 | 47 | 9.651128 | 56 | 0.348872 | 9.960307 | 10 | 30 | |
| | | 40 | 9.611482 | 47 | 9.651185 | 57 | 0.348815 | 9.960298 | 9 | 20 | |
| | | 50 | 9.611529 | 47 | 9.651241 | 56 | 0.348759 | 9.960288 | 10 | 10 | |
| 47 | 8 | 0 | 9.611576 | 47 | 9.651297 | 57 | 0.348703 | 9.960279 | 9 | 0 | 52 |
| 1 4.7 | | 10 | 9.611623 | 47 | 9.651354 | 56 | 0.348646 | 9.960269 | 10 | 50 | |
| 2 9.4 | | 20 | 9.611670 | 47 | 9.651410 | 57 | 0.348590 | 9.960260 | 9 | 40 | |
| 3 14.1 | | 30 | 9.611717 | 47 | 9.651467 | 57 | 0.348533 | 9.960250 | 10 | 30 | |
| 4 18.8 | | 40 | 9.611764 | 47 | 9.651523 | 56 | 0.348477 | 9.960241 | 9 | 20 | |
| 5 23.5 | | 50 | 9.611811 | 47 | 9.651579 | 56 | 0.348421 | 9.960232 | 9 | 10 | |
| 6 28.2 | 9 | 0 | 9.611858 | 47 | 9.651636 | 57 | 0.348364 | 9.960222 | 10 | 0 | 51 |
| 7 32.9 | | 10 | 9.611905 | 47 | 9.651692 | 56 | 0.348308 | 9.960213 | 9 | 50 | |
| 8 37.6 | | 20 | 9.611952 | 47 | 9.651749 | 57 | 0.348251 | 9.960203 | 10 | 40 | |
| 9 42.3 | | 30 | 9.611999 | 47 | 9.651805 | 56 | 0.348195 | 9.960194 | 9 | 30 | |
| | | 40 | 9.612046 | 47 | 9.651861 | 56 | 0.348139 | 9.960184 | 10 | 20 | |
| | | 50 | 9.612093 | 47 | 9.651918 | 57 | 0.348082 | 9.960175 | 9 | 10 | |
| | 10 | 0 | 9.612140 | 47 | 9.651974 | 56 | 0.348026 | 9.960165 | 10 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.612140 | 47 | 9.651974 | 57 | 0.348026 | 9.960165 | 9 | 0 | 50 |
| | 10 | 9.612187 | 47 | 9.652031 | 56 | 0.347969 | 9.960156 | 9 | 50 | |
| | 20 | 9.612234 | 47 | 9.652087 | 56 | 0.347913 | 9.960147 | 9 | 40 | |
| | 30 | 9.612280 | 46 | 9.652143 | 56 | 0.347857 | 9.960137 | 10 | 30 | |
| | 40 | 9.612327 | 47 | 9.652200 | 57 | 0.347800 | 9.960128 | 9 | 20 | |
| | 50 | 9.612374 | 47 | 9.652256 | 56 | 0.347744 | 9.960118 | 10 | 10 | |
| 11 | 0 | 9.612421 | 47 | 9.652312 | 57 | 0.347688 | 9.960109 | 9 | 0 | 49 |
| | 10 | 9.612468 | 47 | 9.652369 | 56 | 0.347631 | 9.960099 | 10 | 50 | |
| | 20 | 9.612515 | 47 | 9.652425 | 56 | 0.347575 | 9.960090 | 9 | 40 | |
| | 30 | 9.612562 | 47 | 9.652481 | 56 | 0.347519 | 9.960080 | 10 | 30 | |
| | 40 | 9.612609 | 47 | 9.652538 | 57 | 0.347462 | 9.960071 | 9 | 20 | |
| | 50 | 9.612655 | 46 | 9.652594 | 56 | 0.347406 | 9.960061 | 10 | 10 | |
| 12 | 0 | 9.612702 | 47 | 9.652650 | 57 | 0.347350 | 9.960052 | 9 | 0 | 48 |
| | 10 | 9.612749 | 47 | 9.652707 | 56 | 0.347293 | 9.960043 | 9 | 50 | |
| | 20 | 9.612796 | 47 | 9.652763 | 56 | 0.347237 | 9.960033 | 10 | 40 | |
| | 30 | 9.612843 | 47 | 9.652819 | 56 | 0.347181 | 9.960024 | 9 | 30 | |
| | 40 | 9.612890 | 47 | 9.652875 | 57 | 0.347125 | 9.960014 | 10 | 20 | |
| | 50 | 9.612936 | 46 | 9.652932 | 57 | 0.347068 | 9.960005 | 9 | 10 | |
| 13 | 0 | 9.612983 | 47 | 9.652988 | 56 | 0.347012 | 9.959995 | 10 | 0 | 47 |
| | 10 | 9.613030 | 47 | 9.653044 | 57 | 0.346956 | 9.959986 | 9 | 50 | |
| | 20 | 9.613077 | 47 | 9.653101 | 57 | 0.346899 | 9.959976 | 10 | 40 | |
| | 30 | 9.613124 | 47 | 9.653157 | 56 | 0.346843 | 9.959967 | 9 | 30 | |
| | 40 | 9.613171 | 47 | 9.653213 | 56 | 0.346787 | 9.959957 | 10 | 20 | |
| | 50 | 9.613217 | 46 | 9.653269 | 56 | 0.346731 | 9.959948 | 9 | 10 | |
| 14 | 0 | 9.613264 | 47 | 9.653326 | 57 | 0.346674 | 9.959938 | 10 | 0 | 46 |
| | 10 | 9.613311 | 47 | 9.653382 | 56 | 0.346618 | 9.959929 | 9 | 50 | |
| | 20 | 9.613358 | 47 | 9.653438 | 56 | 0.346562 | 9.959919 | 10 | 40 | |
| | 30 | 9.613404 | 46 | 9.653494 | 56 | 0.346506 | 9.959910 | 9 | 30 | |
| | 40 | 9.613451 | 47 | 9.653551 | 57 | 0.346449 | 9.959900 | 10 | 20 | |
| | 50 | 9.613498 | 47 | 9.653607 | 56 | 0.346393 | 9.959891 | 9 | 10 | |
| 15 | 0 | 9.613545 | 46 | 9.653663 | 56 | 0.346337 | 9.959882 | 10 | 0 | 45 |
| | 10 | 9.613591 | 47 | 9.653719 | 57 | 0.346281 | 9.959872 | 9 | 50 | |
| | 20 | 9.613638 | 47 | 9.653776 | 56 | 0.346224 | 9.959863 | 9 | 40 | |
| | 30 | 9.613685 | 47 | 9.653832 | 56 | 0.346168 | 9.959853 | 10 | 30 | |
| | 40 | 9.613732 | 47 | 9.653888 | 56 | 0.346112 | 9.959844 | 9 | 20 | |
| | 50 | 9.613778 | 46 | 9.653944 | 56 | 0.346056 | 9.959834 | 10 | 10 | |
| 16 | 0 | 9.613825 | 47 | 9.654000 | 57 | 0.346000 | 9.959825 | 9 | 0 | 44 |
| | 10 | 9.613872 | 47 | 9.654057 | 57 | 0.345943 | 9.959815 | 9 | 50 | |
| | 20 | 9.613918 | 46 | 9.654113 | 56 | 0.345887 | 9.959806 | 9 | 40 | |
| | 30 | 9.613965 | 47 | 9.654169 | 56 | 0.345831 | 9.959796 | 10 | 30 | |
| | 40 | 9.614012 | 47 | 9.654225 | 56 | 0.345775 | 9.959787 | 9 | 20 | |
| | 50 | 9.614058 | 46 | 9.654281 | 56 | 0.345719 | 9.959777 | 10 | 10 | |
| 17 | 0 | 9.614105 | 47 | 9.654337 | 56 | 0.345663 | 9.959768 | 9 | 0 | 43 |
| | 10 | 9.614152 | 47 | 9.654394 | 57 | 0.345606 | 9.959758 | 10 | 50 | |
| | 20 | 9.614198 | 46 | 9.654450 | 56 | 0.345550 | 9.959749 | 9 | 40 | |
| | 30 | 9.614245 | 47 | 9.654506 | 56 | 0.345494 | 9.959739 | 10 | 30 | |
| | 40 | 9.614292 | 47 | 9.654562 | 56 | 0.345438 | 9.959730 | 9 | 20 | |
| | 50 | 9.614338 | 46 | 9.654618 | 56 | 0.345382 | 9.959720 | 10 | 10 | |
| 18 | 0 | 9.614385 | 47 | 9.654674 | 57 | 0.345325 | 9.959711 | 9 | 0 | 42 |
| | 10 | 9.614432 | 47 | 9.654731 | 57 | 0.345269 | 9.959701 | 9 | 50 | |
| | 20 | 9.614478 | 46 | 9.654787 | 56 | 0.345213 | 9.959692 | 9 | 40 | |
| | 30 | 9.614525 | 47 | 9.654843 | 56 | 0.345157 | 9.959682 | 10 | 30 | |
| | 40 | 9.614571 | 46 | 9.654899 | 56 | 0.345101 | 9.959673 | 9 | 20 | |
| | 50 | 9.614618 | 47 | 9.654955 | 56 | 0.345045 | 9.959663 | 10 | 10 | |
| 19 | 0 | 9.614665 | 47 | 9.655011 | 56 | 0.344989 | 9.959653 | 9 | 0 | 41 |
| | 10 | 9.614711 | 46 | 9.655067 | 56 | 0.344933 | 9.959644 | 10 | 50 | |
| | 20 | 9.614758 | 47 | 9.655123 | 56 | 0.344877 | 9.959634 | 9 | 40 | |
| | 30 | 9.614804 | 46 | 9.655179 | 56 | 0.344821 | 9.959625 | 9 | 30 | |
| | 40 | 9.614851 | 47 | 9.655236 | 57 | 0.344764 | 9.959615 | 10 | 20 | |
| | 50 | 9.614898 | 47 | 9.655292 | 56 | 0.344708 | 9.959606 | 9 | 10 | |
| 20 | 0 | 9.614944 | 46 | 9.655348 | 56 | 0.344652 | 9.959596 | 10 | 0 | 40 |

57
1 5.7
2 11.4
3 17.1
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6 34.2
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56
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2 11.2
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1 4.7
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8 36.8
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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|-----|----------|------|----------|------|----------|----------|----|----|----|
| | 20 | 0 | 9.614944 | 47 | 9.655348 | 56 | 0.344652 | 9.959596 | 9 | 0 | 40 |
| | | 10 | 9.614991 | 46 | 9.655404 | 56 | 0.344596 | 9.959587 | 10 | 50 | |
| | | 20 | 9.615037 | 46 | 9.655460 | 56 | 0.344540 | 9.959577 | 10 | 40 | |
| | | 30 | 9.615084 | 47 | 9.655516 | 56 | 0.344484 | 9.959568 | 10 | 30 | |
| | | 40 | 9.615130 | 46 | 9.655572 | 56 | 0.344428 | 9.959558 | 10 | 20 | |
| 56 | | 50 | 9.615177 | 47 | 9.655628 | 56 | 0.344372 | 9.959549 | 9 | 10 | |
| 1 5.6 | | | | | | | | | 10 | 0 | |
| 2 11.2 | 21 | 0 | 9.615223 | 46 | 9.655684 | 56 | 0.344316 | 9.959539 | 9 | 0 | 39 |
| 3 16.8 | | 10 | 9.615270 | 47 | 9.655740 | 56 | 0.344260 | 9.959530 | 10 | 50 | |
| 4 22.4 | | 20 | 9.615316 | 46 | 9.655796 | 56 | 0.344204 | 9.959520 | 10 | 40 | |
| 5 28.0 | | 30 | 9.615363 | 47 | 9.655852 | 56 | 0.344148 | 9.959511 | 9 | 30 | |
| 6 33.6 | | 40 | 9.615409 | 46 | 9.655908 | 56 | 0.344092 | 9.959501 | 10 | 20 | |
| 7 39.2 | | 50 | 9.615456 | 47 | 9.655964 | 56 | 0.344036 | 9.959492 | 9 | 10 | |
| 8 44.8 | | | | | | | | | 10 | 0 | |
| 9 50.4 | 22 | 0 | 9.615502 | 46 | 9.656020 | 56 | 0.343980 | 9.959482 | 9 | 0 | 38 |
| | | 10 | 9.615549 | 47 | 9.656076 | 56 | 0.343924 | 9.959473 | 10 | 50 | |
| | | 20 | 9.615595 | 46 | 9.656132 | 56 | 0.343868 | 9.959463 | 10 | 40 | |
| | | 30 | 9.615642 | 47 | 9.656188 | 56 | 0.343812 | 9.959453 | 9 | 30 | |
| | | 40 | 9.615688 | 46 | 9.656244 | 56 | 0.343756 | 9.959444 | 10 | 20 | |
| | | 50 | 9.615735 | 47 | 9.656300 | 56 | 0.343700 | 9.959434 | 9 | 10 | |
| 55 | | | | | | | | | 10 | 0 | |
| 1 5.5 | 23 | 0 | 9.615781 | 46 | 9.656356 | 56 | 0.343644 | 9.959425 | 9 | 0 | 37 |
| 2 11.0 | | 10 | 9.615828 | 47 | 9.656412 | 56 | 0.343588 | 9.959415 | 10 | 50 | |
| 3 16.5 | | 20 | 9.615874 | 46 | 9.656468 | 56 | 0.343532 | 9.959406 | 9 | 40 | |
| 4 22.0 | | 30 | 9.615921 | 47 | 9.656524 | 56 | 0.343476 | 9.959396 | 10 | 30 | |
| 5 27.5 | | 40 | 9.615967 | 46 | 9.656580 | 56 | 0.343420 | 9.959387 | 9 | 20 | |
| 6 33.0 | | 50 | 9.616013 | 46 | 9.656636 | 56 | 0.343364 | 9.959377 | 10 | 10 | |
| 7 38.5 | | | | | | | | | 9 | 0 | |
| 8 44.0 | 24 | 0 | 9.616060 | 47 | 9.656692 | 56 | 0.343308 | 9.959368 | 10 | 0 | 36 |
| 9 49.5 | | 10 | 9.616106 | 46 | 9.656748 | 56 | 0.343252 | 9.959358 | 10 | 50 | |
| | | 20 | 9.616153 | 47 | 9.656804 | 56 | 0.343196 | 9.959348 | 9 | 40 | |
| | | 30 | 9.616199 | 46 | 9.656860 | 56 | 0.343140 | 9.959339 | 10 | 30 | |
| | | 40 | 9.616245 | 47 | 9.656916 | 56 | 0.343084 | 9.959329 | 9 | 20 | |
| | | 50 | 9.616292 | 46 | 9.656972 | 56 | 0.343028 | 9.959320 | 10 | 10 | |
| * | | | | | | | | | 10 | 0 | |
| | 25 | 0 | 9.616338 | 47 | 9.657028 | 56 | 0.342972 | 9.959310 | 9 | 0 | 35 |
| | | 10 | 9.616385 | 46 | 9.657084 | 56 | 0.342916 | 9.959301 | 10 | 50 | |
| | | 20 | 9.616431 | 46 | 9.657140 | 56 | 0.342860 | 9.959291 | 9 | 40 | |
| | | 30 | 9.616477 | 47 | 9.657196 | 56 | 0.342804 | 9.959282 | 10 | 30 | |
| | | 40 | 9.616524 | 46 | 9.657252 | 56 | 0.342748 | 9.959272 | 9 | 20 | |
| | | 50 | 9.616570 | 46 | 9.657308 | 56 | 0.342692 | 9.959262 | 10 | 10 | |
| 47 | | | | | | | | | 9 | 0 | |
| 1 4.7 | 26 | 0 | 9.616616 | 46 | 9.657364 | 55 | 0.342636 | 9.959253 | 10 | 0 | 34 |
| 2 9.4 | | 10 | 9.616663 | 47 | 9.657419 | 56 | 0.342581 | 9.959243 | 9 | 50 | |
| 3 14.1 | | 20 | 9.616709 | 46 | 9.657475 | 56 | 0.342525 | 9.959234 | 10 | 40 | |
| 4 18.8 | | 30 | 9.616755 | 46 | 9.657531 | 56 | 0.342469 | 9.959224 | 9 | 30 | |
| 5 23.5 | | 40 | 9.616802 | 47 | 9.657587 | 56 | 0.342413 | 9.959215 | 10 | 20 | |
| 6 28.2 | | 50 | 9.616848 | 46 | 9.657643 | 56 | 0.342357 | 9.959205 | 9 | 10 | |
| 7 32.9 | | | | | | | | | 10 | 0 | |
| 8 37.6 | 27 | 0 | 9.616894 | 46 | 9.657699 | 56 | 0.342301 | 9.959195 | 9 | 0 | 33 |
| 9 42.3 | | 10 | 9.616941 | 47 | 9.657755 | 56 | 0.342245 | 9.959185 | 10 | 50 | |
| | | 20 | 9.616987 | 46 | 9.657811 | 56 | 0.342189 | 9.959176 | 9 | 40 | |
| | | 30 | 9.617033 | 46 | 9.657867 | 56 | 0.342133 | 9.959167 | 10 | 30 | |
| | | 40 | 9.617080 | 47 | 9.657922 | 55 | 0.342078 | 9.959157 | 10 | 20 | |
| | | 50 | 9.617126 | 46 | 9.657978 | 56 | 0.342022 | 9.959148 | 9 | 10 | |
| | | | | | | | | | 10 | 0 | |
| 46 | | | | | | | | | | | |
| 1 4.6 | 28 | 0 | 9.617172 | 46 | 9.658034 | 56 | 0.341966 | 9.959138 | 9 | 0 | 32 |
| 2 9.2 | | 10 | 9.617218 | 46 | 9.658090 | 56 | 0.341910 | 9.959128 | 10 | 50 | |
| 3 13.8 | | 20 | 9.617265 | 47 | 9.658146 | 56 | 0.341854 | 9.959119 | 9 | 40 | |
| 4 18.4 | | 30 | 9.617311 | 46 | 9.658202 | 56 | 0.341798 | 9.959109 | 10 | 30 | |
| 5 23.0 | | 40 | 9.617357 | 46 | 9.658258 | 56 | 0.341742 | 9.959100 | 9 | 20 | |
| 6 27.6 | | 50 | 9.617403 | 46 | 9.658313 | 55 | 0.341687 | 9.959090 | 10 | 10 | |
| 7 32.2 | | | | | | | | | 10 | 0 | |
| 8 36.8 | 29 | 0 | 9.617450 | 47 | 9.658369 | 56 | 0.341631 | 9.959080 | 9 | 0 | 31 |
| 9 41.4 | | 10 | 9.617496 | 46 | 9.658425 | 56 | 0.341575 | 9.959071 | 10 | 50 | |
| | | 20 | 9.617542 | 46 | 9.658481 | 56 | 0.341519 | 9.959061 | 9 | 40 | |
| | | 30 | 9.617588 | 47 | 9.658537 | 56 | 0.341463 | 9.959052 | 10 | 30 | |
| | | 40 | 9.617635 | 46 | 9.658592 | 55 | 0.341408 | 9.959042 | 10 | 20 | |
| | | 50 | 9.617681 | 46 | 9.658648 | 56 | 0.341352 | 9.959033 | 9 | 10 | |
| | | | | | | | | | 10 | 0 | |
| | 30 | 0 | 9.617727 | 46 | 9.658704 | 56 | 0.341296 | 9.959023 | | | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.617727 | 46 | 9.658704 | 56 | 0.341296 | 9.959023 | 10 | 0 | 30 |
| | 10 | 9.617773 | 46 | 9.658760 | 56 | 0.341240 | 9.959013 | 9 | 50 | |
| | 20 | 9.617819 | 46 | 9.658816 | 56 | 0.341184 | 9.959004 | 9 | 40 | |
| | 30 | 9.617866 | 47 | 9.658871 | 55 | 0.341129 | 9.958994 | 9 | 30 | |
| | 40 | 9.617912 | 46 | 9.658927 | 55 | 0.341073 | 9.958985 | 9 | 20 | |
| | 50 | 9.617958 | 46 | 9.658983 | 56 | 0.341017 | 9.958975 | 10 | 10 | |
| 31 | 0 | 9.618004 | 46 | 9.659039 | 56 | 0.340961 | 9.958965 | 10 | 0 | 29 |
| | 10 | 9.618050 | 46 | 9.659095 | 55 | 0.340905 | 9.958956 | 9 | 50 | |
| | 20 | 9.618096 | 46 | 9.659150 | 56 | 0.340850 | 9.958946 | 10 | 40 | |
| | 30 | 9.618143 | 47 | 9.659206 | 56 | 0.340794 | 9.958937 | 9 | 30 | |
| | 40 | 9.618189 | 46 | 9.659262 | 56 | 0.340738 | 9.958927 | 10 | 20 | |
| | 50 | 9.618235 | 46 | 9.659318 | 55 | 0.340682 | 9.958917 | 10 | 10 | |
| 32 | 0 | 9.618281 | 46 | 9.659373 | 55 | 0.340627 | 9.958908 | 9 | 0 | 28 |
| | 10 | 9.618327 | 46 | 9.659429 | 56 | 0.340571 | 9.958898 | 10 | 50 | |
| | 20 | 9.618373 | 46 | 9.659485 | 55 | 0.340515 | 9.958888 | 9 | 40 | |
| | 30 | 9.618419 | 46 | 9.659540 | 56 | 0.340460 | 9.958879 | 10 | 30 | |
| | 40 | 9.618465 | 46 | 9.659596 | 56 | 0.340404 | 9.958869 | 9 | 20 | |
| | 50 | 9.618512 | 47 | 9.659652 | 56 | 0.340348 | 9.958860 | 10 | 10 | |
| 33 | 0 | 9.618558 | 46 | 9.659708 | 55 | 0.340292 | 9.958850 | 10 | 0 | 27 |
| | 10 | 9.618604 | 46 | 9.659763 | 55 | 0.340237 | 9.958840 | 9 | 50 | |
| | 20 | 9.618650 | 46 | 9.659819 | 56 | 0.340181 | 9.958831 | 10 | 40 | |
| | 30 | 9.618696 | 46 | 9.659875 | 55 | 0.340125 | 9.958821 | 9 | 30 | |
| | 40 | 9.618742 | 46 | 9.659930 | 55 | 0.340070 | 9.958812 | 10 | 20 | |
| | 50 | 9.618788 | 46 | 9.659986 | 56 | 0.340014 | 9.958802 | 10 | 10 | |
| 34 | 0 | 9.618834 | 46 | 9.660042 | 56 | 0.339958 | 9.958792 | 9 | 0 | 26 |
| | 10 | 9.618880 | 46 | 9.660098 | 55 | 0.339902 | 9.958783 | 10 | 50 | |
| | 20 | 9.618926 | 46 | 9.660153 | 55 | 0.339847 | 9.958773 | 9 | 40 | |
| | 30 | 9.618972 | 46 | 9.660209 | 56 | 0.339791 | 9.958763 | 10 | 30 | |
| | 40 | 9.619018 | 46 | 9.660265 | 55 | 0.339735 | 9.958754 | 9 | 20 | |
| | 50 | 9.619064 | 46 | 9.660320 | 55 | 0.339680 | 9.958744 | 10 | 10 | |
| 35 | 0 | 9.619110 | 46 | 9.660376 | 55 | 0.339624 | 9.958734 | 9 | 0 | 25 |
| | 10 | 9.619156 | 46 | 9.660431 | 56 | 0.339569 | 9.958725 | 10 | 50 | |
| | 20 | 9.619202 | 46 | 9.660487 | 56 | 0.339513 | 9.958715 | 9 | 40 | |
| | 30 | 9.619248 | 46 | 9.660543 | 56 | 0.339457 | 9.958706 | 10 | 30 | |
| | 40 | 9.619294 | 46 | 9.660598 | 56 | 0.339402 | 9.958696 | 9 | 20 | |
| | 50 | 9.619340 | 46 | 9.660654 | 56 | 0.339346 | 9.958686 | 10 | 10 | |
| 36 | 0 | 9.619386 | 46 | 9.660710 | 55 | 0.339290 | 9.958677 | 9 | 0 | 24 |
| | 10 | 9.619432 | 46 | 9.660765 | 56 | 0.339235 | 9.958667 | 10 | 50 | |
| | 20 | 9.619478 | 46 | 9.660821 | 56 | 0.339179 | 9.958657 | 9 | 40 | |
| | 30 | 9.619524 | 46 | 9.660877 | 56 | 0.339123 | 9.958648 | 10 | 30 | |
| | 40 | 9.619570 | 46 | 9.660932 | 55 | 0.339068 | 9.958638 | 9 | 20 | |
| | 50 | 9.619616 | 46 | 9.660988 | 56 | 0.339012 | 9.958628 | 10 | 10 | |
| 37 | 0 | 9.619662 | 46 | 9.661043 | 55 | 0.338957 | 9.958619 | 9 | 0 | 23 |
| | 10 | 9.619708 | 46 | 9.661099 | 56 | 0.338901 | 9.958609 | 10 | 50 | |
| | 20 | 9.619754 | 46 | 9.661155 | 56 | 0.338845 | 9.958600 | 9 | 40 | |
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| | 50 | 9.619892 | 46 | 9.661321 | 55 | 0.338679 | 9.958571 | 10 | 10 | |
| 38 | 0 | 9.619938 | 46 | 9.661377 | 56 | 0.338623 | 9.958561 | 9 | 0 | 22 |
| | 10 | 9.619984 | 46 | 9.661432 | 56 | 0.338568 | 9.958551 | 10 | 50 | |
| | 20 | 9.620030 | 46 | 9.661488 | 56 | 0.338512 | 9.958542 | 9 | 40 | |
| | 30 | 9.620076 | 46 | 9.661544 | 56 | 0.338456 | 9.958532 | 10 | 30 | |
| | 40 | 9.620121 | 45 | 9.661599 | 55 | 0.338401 | 9.958522 | 9 | 20 | |
| | 50 | 9.620167 | 46 | 9.661655 | 56 | 0.338345 | 9.958512 | 10 | 10 | |
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| | 10 | 9.620259 | 46 | 9.661766 | 55 | 0.338234 | 9.958493 | 10 | 50 | |
| | 20 | 9.620305 | 46 | 9.661821 | 55 | 0.338179 | 9.958484 | 9 | 40 | |
| | 30 | 9.620351 | 46 | 9.661877 | 56 | 0.338123 | 9.958474 | 10 | 30 | |
| | 40 | 9.620397 | 46 | 9.661932 | 55 | 0.338068 | 9.958464 | 9 | 20 | |
| | 50 | 9.620443 | 46 | 9.661988 | 56 | 0.338012 | 9.958455 | 10 | 10 | |
| 40 | 0 | 9.620488 | 45 | 9.662043 | 55 | 0.337957 | 9.958445 | 9 | 0 | 20 |

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| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9.620488 | 46 | 9.662043 | 56 | 0.337957 | 9.958445 | 10 | 0 | 20 |
| | 10 | 9.620534 | 46 | 9.662099 | 55 | 0.337901 | 9.958435 | 9 | 50 | |
| | 20 | 9.620580 | 46 | 9.662154 | 55 | 0.337846 | 9.958426 | 10 | 40 | |
| | 30 | 9.620626 | 46 | 9.662210 | 55 | 0.337790 | 9.958416 | 10 | 30 | |
| | 40 | 9.620672 | 46 | 9.662265 | 55 | 0.337735 | 9.958406 | 10 | 20 | |
| | 50 | 9.620718 | 46 | 9.662321 | 55 | 0.337679 | 9.958397 | 9 | 10 | |
| 41 | 0 | 9.620763 | 45 | 9.662376 | 56 | 0.337624 | 9.958387 | 10 | 0 | 19 |
| | 10 | 9.620809 | 46 | 9.662432 | 55 | 0.337568 | 9.958377 | 9 | 50 | |
| | 20 | 9.620855 | 46 | 9.662487 | 55 | 0.337513 | 9.958368 | 10 | 40 | |
| | 30 | 9.620901 | 46 | 9.662543 | 55 | 0.337457 | 9.958358 | 10 | 30 | |
| | 40 | 9.620947 | 46 | 9.662598 | 55 | 0.337402 | 9.958348 | 10 | 20 | |
| | 50 | 9.620992 | 45 | 9.662654 | 56 | 0.337346 | 9.958339 | 9 | 10 | |
| 42 | 0 | 9.621038 | 46 | 9.662709 | 56 | 0.337291 | 9.958329 | 10 | 0 | 18 |
| | 10 | 9.621084 | 46 | 9.662765 | 55 | 0.337235 | 9.958319 | 10 | 50 | |
| | 20 | 9.621130 | 46 | 9.662820 | 56 | 0.337180 | 9.958309 | 9 | 40 | |
| | 30 | 9.621175 | 45 | 9.662876 | 55 | 0.337124 | 9.958300 | 10 | 30 | |
| | 40 | 9.621221 | 46 | 9.662931 | 55 | 0.337069 | 9.958290 | 10 | 20 | |
| | 50 | 9.621267 | 46 | 9.662987 | 56 | 0.337013 | 9.958280 | 9 | 10 | |
| 43 | 0 | 9.621313 | 45 | 9.663042 | 55 | 0.336958 | 9.958271 | 10 | 0 | 17 |
| | 10 | 9.621358 | 46 | 9.663097 | 56 | 0.336903 | 9.958261 | 10 | 50 | |
| | 20 | 9.621404 | 46 | 9.663153 | 55 | 0.336847 | 9.958251 | 9 | 40 | |
| | 30 | 9.621450 | 46 | 9.663208 | 56 | 0.336792 | 9.958242 | 10 | 30 | |
| | 40 | 9.621496 | 46 | 9.663264 | 56 | 0.336736 | 9.958232 | 10 | 20 | |
| | 50 | 9.621541 | 45 | 9.663319 | 55 | 0.336681 | 9.958222 | 10 | 10 | |
| 44 | 0 | 9.621587 | 46 | 9.663375 | 56 | 0.336625 | 9.958213 | 9 | 0 | 16 |
| | 10 | 9.621633 | 46 | 9.663430 | 55 | 0.336570 | 9.958203 | 10 | 50 | |
| | 20 | 9.621678 | 45 | 9.663485 | 55 | 0.336515 | 9.958193 | 10 | 40 | |
| | 30 | 9.621724 | 46 | 9.663541 | 55 | 0.336459 | 9.958183 | 10 | 30 | |
| | 40 | 9.621770 | 46 | 9.663596 | 55 | 0.336404 | 9.958174 | 9 | 20 | |
| | 50 | 9.621816 | 45 | 9.663651 | 56 | 0.336349 | 9.958164 | 10 | 10 | |
| 45 | 0 | 9.621861 | 46 | 9.663707 | 55 | 0.336293 | 9.958154 | 9 | 0 | 15 |
| | 10 | 9.621907 | 46 | 9.663762 | 56 | 0.336238 | 9.958145 | 10 | 50 | |
| | 20 | 9.621953 | 46 | 9.663818 | 55 | 0.336182 | 9.958135 | 10 | 40 | |
| | 30 | 9.621998 | 45 | 9.663873 | 55 | 0.336127 | 9.958125 | 10 | 30 | |
| | 40 | 9.622044 | 46 | 9.663928 | 56 | 0.336072 | 9.958115 | 10 | 20 | |
| | 50 | 9.622089 | 45 | 9.663984 | 56 | 0.336016 | 9.958105 | 9 | 10 | |
| 46 | 0 | 9.622135 | 46 | 9.664039 | 55 | 0.335961 | 9.958096 | 10 | 0 | 14 |
| | 10 | 9.622181 | 46 | 9.664094 | 56 | 0.335906 | 9.958086 | 10 | 50 | |
| | 20 | 9.622226 | 45 | 9.664150 | 56 | 0.335850 | 9.958077 | 9 | 40 | |
| | 30 | 9.622272 | 46 | 9.664205 | 55 | 0.335795 | 9.958067 | 10 | 30 | |
| | 40 | 9.622318 | 46 | 9.664260 | 55 | 0.335740 | 9.958057 | 10 | 20 | |
| | 50 | 9.622363 | 45 | 9.664316 | 56 | 0.335684 | 9.958047 | 10 | 10 | |
| 47 | 0 | 9.622409 | 46 | 9.664371 | 55 | 0.335629 | 9.958038 | 9 | 0 | 13 |
| | 10 | 9.622454 | 45 | 9.664426 | 55 | 0.335574 | 9.958028 | 10 | 50 | |
| | 20 | 9.622500 | 46 | 9.664482 | 56 | 0.335518 | 9.958018 | 10 | 40 | |
| | 30 | 9.622546 | 46 | 9.664537 | 55 | 0.335463 | 9.958009 | 9 | 30 | |
| | 40 | 9.622591 | 45 | 9.664592 | 55 | 0.335408 | 9.957999 | 10 | 20 | |
| | 50 | 9.622637 | 46 | 9.664648 | 56 | 0.335352 | 9.957989 | 10 | 10 | |
| 48 | 0 | 9.622682 | 45 | 9.664703 | 55 | 0.335297 | 9.957979 | 10 | 0 | 12 |
| | 10 | 9.622728 | 46 | 9.664758 | 55 | 0.335242 | 9.957970 | 9 | 50 | |
| | 20 | 9.622773 | 45 | 9.664814 | 56 | 0.335186 | 9.957960 | 10 | 40 | |
| | 30 | 9.622819 | 46 | 9.664869 | 55 | 0.335131 | 9.957950 | 10 | 30 | |
| | 40 | 9.622865 | 46 | 9.664924 | 55 | 0.335076 | 9.957940 | 10 | 20 | |
| | 50 | 9.622910 | 45 | 9.664979 | 56 | 0.335021 | 9.957931 | 9 | 10 | |
| 49 | 0 | 9.622956 | 46 | 9.665035 | 55 | 0.334965 | 9.957921 | 10 | 0 | 11 |
| | 10 | 9.623001 | 45 | 9.665090 | 55 | 0.334910 | 9.957911 | 10 | 50 | |
| | 20 | 9.623047 | 46 | 9.665145 | 55 | 0.334855 | 9.957902 | 9 | 40 | |
| | 30 | 9.623092 | 45 | 9.665200 | 56 | 0.334800 | 9.957892 | 10 | 30 | |
| | 40 | 9.623138 | 46 | 9.665256 | 55 | 0.334744 | 9.957882 | 10 | 20 | |
| | 50 | 9.623183 | 45 | 9.665311 | 55 | 0.334689 | 9.957872 | 10 | 10 | |
| 50 | 0 | 9.623229 | 46 | 9.665366 | 55 | 0.334634 | 9.957863 | 9 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.623229 | | 9.665366 | | 0.334634 | 9.957863 | | 0 | 10 |
| | 10 | 9.623274 | 45 | 9.665421 | 55 | 0.334579 | 9.957853 | 10 | 50 | |
| | 20 | 9.623320 | 46 | 9.665477 | 56 | 0.334523 | 9.957843 | 10 | 40 | |
| | 30 | 9.623365 | 45 | 9.665532 | 55 | 0.334468 | 9.957833 | 10 | 30 | |
| | 40 | 9.623411 | 46 | 9.665587 | 55 | 0.334413 | 9.957824 | 9 | 20 | |
| | 50 | 9.623456 | 45 | 9.665642 | 55 | 0.334358 | 9.957814 | 10 | 10 | |
| 51 | 0 | 9.623502 | 46 | 9.665698 | 56 | 0.334302 | 9.957804 | 10 | 0 | |
| | 10 | 9.623547 | 45 | 9.665753 | 55 | 0.334247 | 9.957794 | 10 | 50 | |
| | 20 | 9.623593 | 46 | 9.665808 | 55 | 0.334192 | 9.957785 | 9 | 40 | |
| | 30 | 9.623638 | 45 | 9.665863 | 55 | 0.334137 | 9.957775 | 10 | 30 | |
| | 40 | 9.623683 | 46 | 9.665918 | 55 | 0.334082 | 9.957765 | 10 | 20 | |
| | 50 | 9.623729 | 45 | 9.665974 | 56 | 0.334026 | 9.957755 | 10 | 10 | |
| 52 | 0 | 9.623774 | 46 | 9.666029 | 55 | 0.333971 | 9.957746 | 9 | 0 | |
| | 10 | 9.623820 | 45 | 9.666084 | 55 | 0.333916 | 9.957736 | 10 | 50 | |
| | 20 | 9.623865 | 46 | 9.666139 | 55 | 0.333861 | 9.957726 | 10 | 40 | |
| | 30 | 9.623911 | 45 | 9.666194 | 55 | 0.333806 | 9.957716 | 10 | 30 | |
| | 40 | 9.623956 | 46 | 9.666249 | 55 | 0.333751 | 9.957707 | 9 | 20 | |
| | 50 | 9.624001 | 45 | 9.666305 | 56 | 0.333695 | 9.957697 | 10 | 10 | |
| 53 | 0 | 9.624047 | 46 | 9.666360 | 55 | 0.333640 | 9.957687 | 10 | 0 | |
| | 10 | 9.624092 | 45 | 9.666415 | 55 | 0.333585 | 9.957677 | 10 | 50 | |
| | 20 | 9.624138 | 46 | 9.666470 | 55 | 0.333530 | 9.957667 | 10 | 40 | |
| | 30 | 9.624183 | 45 | 9.666525 | 55 | 0.333475 | 9.957658 | 9 | 30 | |
| | 40 | 9.624228 | 46 | 9.666580 | 55 | 0.333420 | 9.957648 | 10 | 20 | |
| | 50 | 9.624274 | 45 | 9.666636 | 56 | 0.333364 | 9.957638 | 10 | 10 | |
| 54 | 0 | 9.624319 | 46 | 9.666691 | 55 | 0.333309 | 9.957628 | 10 | 0 | |
| | 10 | 9.624364 | 45 | 9.666746 | 55 | 0.333254 | 9.957619 | 9 | 50 | |
| | 20 | 9.624410 | 46 | 9.666801 | 55 | 0.333199 | 9.957609 | 10 | 40 | |
| | 30 | 9.624455 | 45 | 9.666856 | 55 | 0.333144 | 9.957599 | 10 | 30 | |
| | 40 | 9.624500 | 46 | 9.666911 | 55 | 0.333089 | 9.957589 | 10 | 20 | |
| | 50 | 9.624546 | 45 | 9.666966 | 55 | 0.333034 | 9.957579 | 9 | 10 | |
| 55 | 0 | 9.624591 | 46 | 9.667021 | 55 | 0.332979 | 9.957570 | 10 | 0 | |
| | 10 | 9.624636 | 45 | 9.667076 | 55 | 0.332924 | 9.957560 | 10 | 50 | |
| | 20 | 9.624682 | 46 | 9.667132 | 56 | 0.332868 | 9.957550 | 10 | 40 | |
| | 30 | 9.624727 | 45 | 9.667187 | 55 | 0.332813 | 9.957540 | 10 | 30 | |
| | 40 | 9.624772 | 46 | 9.667242 | 55 | 0.332758 | 9.957531 | 9 | 20 | |
| | 50 | 9.624818 | 45 | 9.667297 | 55 | 0.332703 | 9.957521 | 10 | 10 | |
| 56 | 0 | 9.624863 | 46 | 9.667352 | 55 | 0.332648 | 9.957511 | 10 | 0 | |
| | 10 | 9.624908 | 45 | 9.667407 | 55 | 0.332593 | 9.957501 | 10 | 50 | |
| | 20 | 9.624954 | 46 | 9.667462 | 55 | 0.332538 | 9.957491 | 10 | 40 | |
| | 30 | 9.624999 | 45 | 9.667517 | 55 | 0.332483 | 9.957482 | 9 | 30 | |
| | 40 | 9.625044 | 46 | 9.667572 | 55 | 0.332428 | 9.957472 | 10 | 20 | |
| | 50 | 9.625089 | 45 | 9.667627 | 55 | 0.332373 | 9.957462 | 10 | 10 | |
| 57 | 0 | 9.625135 | 46 | 9.667682 | 55 | 0.332318 | 9.957452 | 10 | 0 | |
| | 10 | 9.625180 | 45 | 9.667737 | 55 | 0.332263 | 9.957442 | 10 | 50 | |
| | 20 | 9.625225 | 46 | 9.667792 | 55 | 0.332208 | 9.957433 | 9 | 40 | |
| | 30 | 9.625270 | 45 | 9.667847 | 55 | 0.332153 | 9.957423 | 10 | 30 | |
| | 40 | 9.625316 | 46 | 9.667903 | 56 | 0.332097 | 9.957413 | 10 | 20 | |
| | 50 | 9.625361 | 45 | 9.667958 | 55 | 0.332042 | 9.957403 | 10 | 10 | |
| 58 | 0 | 9.625406 | 46 | 9.668013 | 55 | 0.331987 | 9.957393 | 10 | 0 | |
| | 10 | 9.625451 | 45 | 9.668068 | 55 | 0.331932 | 9.957384 | 9 | 50 | |
| | 20 | 9.625496 | 46 | 9.668123 | 55 | 0.331877 | 9.957374 | 10 | 40 | |
| | 30 | 9.625542 | 45 | 9.668178 | 55 | 0.331822 | 9.957364 | 10 | 30 | |
| | 40 | 9.625587 | 46 | 9.668233 | 55 | 0.331767 | 9.957354 | 10 | 20 | |
| | 50 | 9.625632 | 45 | 9.668288 | 55 | 0.331712 | 9.957344 | 10 | 10 | |
| 59 | 0 | 9.625677 | 46 | 9.668343 | 55 | 0.331657 | 9.957334 | 9 | 0 | |
| | 10 | 9.625722 | 45 | 9.668398 | 55 | 0.331602 | 9.957325 | 10 | 50 | |
| | 20 | 9.625768 | 46 | 9.668453 | 55 | 0.331547 | 9.957315 | 10 | 40 | |
| | 30 | 9.625813 | 45 | 9.668508 | 55 | 0.331492 | 9.957305 | 10 | 30 | |
| | 40 | 9.625858 | 46 | 9.668563 | 55 | 0.331437 | 9.957295 | 9 | 20 | |
| | 50 | 9.625903 | 45 | 9.668618 | 55 | 0.331382 | 9.957286 | 10 | 10 | |
| 60 | 0 | 9.625948 | 46 | 9.668673 | 55 | 0.331327 | 9.957276 | 10 | 0 | |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| | ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| | 0 | 0 | 9.625948 | 45 | 9.668673 | 55 | 0.331327 | 9.957276 | 10 | 0 | 60 |
| | 10 | 10 | 9.625993 | 46 | 9.668728 | 54 | 0.331272 | 9.957266 | 10 | 50 | |
| | 20 | 20 | 9.626039 | 45 | 9.668782 | 55 | 0.331218 | 9.957256 | 10 | 40 | |
| | 30 | 30 | 9.626084 | 45 | 9.668837 | 55 | 0.331163 | 9.957246 | 10 | 30 | |
| | 40 | 40 | 9.626129 | 45 | 9.668892 | 55 | 0.331108 | 9.957236 | 10 | 20 | |
| | 50 | 50 | 9.626174 | 45 | 9.668947 | 55 | 0.331053 | 9.957227 | 9 | 10 | |
| 55 | 1 | 0 | 9.626219 | 45 | 9.669002 | 55 | 0.330998 | 9.957217 | 10 | 0 | 59 |
| 1 5.5 | 10 | 10 | 9.626264 | 45 | 9.669057 | 55 | 0.330943 | 9.957207 | 10 | 50 | |
| 2 16.5 | 20 | 20 | 9.626309 | 45 | 9.669112 | 55 | 0.330888 | 9.957197 | 10 | 40 | |
| 4 22.0 | 30 | 30 | 9.626354 | 45 | 9.669167 | 55 | 0.330833 | 9.957187 | 10 | 30 | |
| 5 27.5 | 40 | 40 | 9.626400 | 46 | 9.669222 | 55 | 0.330778 | 9.957177 | 10 | 20 | |
| 6 33.0 | 50 | 50 | 9.626445 | 45 | 9.669277 | 55 | 0.330723 | 9.957168 | 9 | 10 | |
| 7 38.5 | 2 | 0 | 9.626490 | 45 | 9.669332 | 55 | 0.330668 | 9.957158 | 10 | 0 | 58 |
| 8 44.0 | 10 | 10 | 9.626535 | 45 | 9.669387 | 55 | 0.330613 | 9.957148 | 10 | 50 | |
| 9 49.5 | 20 | 20 | 9.626580 | 45 | 9.669442 | 55 | 0.330558 | 9.957138 | 10 | 40 | |
| | 30 | 30 | 9.626625 | 45 | 9.669497 | 55 | 0.330503 | 9.957128 | 10 | 30 | |
| | 40 | 40 | 9.626670 | 45 | 9.669552 | 55 | 0.330448 | 9.957118 | 10 | 20 | |
| | 50 | 50 | 9.626715 | 45 | 9.669606 | 54 | 0.330394 | 9.957109 | 9 | 10 | |
| 54 | 3 | 0 | 9.626760 | 45 | 9.669661 | 55 | 0.330339 | 9.957099 | 10 | 0 | 57 |
| 1 5.4 | 10 | 10 | 9.626805 | 45 | 9.669716 | 55 | 0.330284 | 9.957089 | 10 | 50 | |
| 2 10.8 | 20 | 20 | 9.626850 | 45 | 9.669771 | 55 | 0.330229 | 9.957079 | 10 | 40 | |
| 3 16.2 | 30 | 30 | 9.626895 | 45 | 9.669826 | 55 | 0.330174 | 9.957069 | 10 | 30 | |
| 4 21.6 | 40 | 40 | 9.626940 | 45 | 9.669881 | 55 | 0.330119 | 9.957059 | 10 | 20 | |
| 5 27.0 | 50 | 50 | 9.626985 | 45 | 9.669936 | 55 | 0.330064 | 9.957050 | 9 | 10 | |
| 6 32.4 | 4 | 0 | 9.627030 | 45 | 9.669991 | 55 | 0.330009 | 9.957040 | 10 | 0 | 56 |
| 7 37.8 | 10 | 10 | 9.627075 | 45 | 9.670045 | 54 | 0.329955 | 9.957030 | 10 | 50 | |
| 8 43.2 | 20 | 20 | 9.627120 | 45 | 9.670100 | 55 | 0.329900 | 9.957020 | 10 | 40 | |
| 9 48.6 | 30 | 30 | 9.627165 | 45 | 9.670155 | 55 | 0.329845 | 9.957010 | 10 | 30 | |
| | 40 | 40 | 9.627210 | 45 | 9.670210 | 55 | 0.329790 | 9.957000 | 10 | 20 | |
| | 50 | 50 | 9.627255 | 45 | 9.670265 | 55 | 0.329735 | 9.956990 | 10 | 10 | |
| * | 5 | 0 | 9.627300 | 45 | 9.670320 | 55 | 0.329680 | 9.956981 | 9 | 0 | 55 |
| | 10 | 10 | 9.627345 | 45 | 9.670375 | 55 | 0.329625 | 9.956971 | 10 | 50 | |
| | 20 | 20 | 9.627390 | 45 | 9.670429 | 54 | 0.329571 | 9.956961 | 10 | 40 | |
| | 30 | 30 | 9.627435 | 45 | 9.670484 | 55 | 0.329516 | 9.956951 | 10 | 30 | |
| | 40 | 40 | 9.627480 | 45 | 9.670539 | 55 | 0.329461 | 9.956941 | 10 | 20 | |
| | 50 | 50 | 9.627525 | 45 | 9.670594 | 55 | 0.329406 | 9.956931 | 10 | 10 | |
| 46 | 6 | 0 | 9.627570 | 45 | 9.670649 | 54 | 0.329351 | 9.956921 | 10 | 0 | 54 |
| 1 4.6 | 10 | 10 | 9.627615 | 45 | 9.670703 | 55 | 0.329297 | 9.956912 | 9 | 50 | |
| 2 9.2 | 20 | 20 | 9.627660 | 45 | 9.670758 | 55 | 0.329242 | 9.956902 | 10 | 40 | |
| 3 13.8 | 30 | 30 | 9.627705 | 45 | 9.670813 | 55 | 0.329187 | 9.956892 | 10 | 30 | |
| 4 18.4 | 40 | 40 | 9.627750 | 45 | 9.670868 | 55 | 0.329132 | 9.956882 | 10 | 20 | |
| 5 23.0 | 50 | 50 | 9.627795 | 45 | 9.670923 | 55 | 0.329077 | 9.956872 | 10 | 10 | |
| 6 27.6 | 7 | 0 | 9.627840 | 45 | 9.670977 | 54 | 0.329023 | 9.956862 | 10 | 0 | 53 |
| 7 32.2 | 10 | 10 | 9.627885 | 45 | 9.671032 | 55 | 0.328968 | 9.956852 | 10 | 50 | |
| 8 36.8 | 20 | 20 | 9.627929 | 44 | 9.671087 | 55 | 0.328913 | 9.956843 | 9 | 40 | |
| 9 41.4 | 30 | 30 | 9.627974 | 45 | 9.671142 | 55 | 0.328858 | 9.956833 | 10 | 30 | |
| | 40 | 40 | 9.628019 | 45 | 9.671197 | 55 | 0.328803 | 9.956823 | 10 | 20 | |
| | 50 | 50 | 9.628064 | 45 | 9.671251 | 54 | 0.328749 | 9.956813 | 10 | 10 | |
| | 8 | 0 | 9.628109 | 45 | 9.671306 | 55 | 0.328694 | 9.956803 | 10 | 0 | 52 |
| 45 | 10 | 10 | 9.628154 | 45 | 9.671361 | 55 | 0.328639 | 9.956793 | 10 | 50 | |
| 1 4.5 | 20 | 20 | 9.628199 | 45 | 9.671416 | 55 | 0.328584 | 9.956783 | 10 | 40 | |
| 2 9.0 | 30 | 30 | 9.628244 | 45 | 9.671470 | 54 | 0.328530 | 9.956773 | 10 | 30 | |
| 3 13.5 | 40 | 40 | 9.628289 | 45 | 9.671525 | 55 | 0.328475 | 9.956763 | 10 | 20 | |
| 4 18.0 | 50 | 50 | 9.628333 | 44 | 9.671580 | 55 | 0.328420 | 9.956754 | 9 | 10 | |
| 5 22.5 | 9 | 0 | 9.628378 | 45 | 9.671635 | 55 | 0.328365 | 9.956744 | 10 | 0 | 51 |
| 6 27.0 | 10 | 10 | 9.628423 | 45 | 9.671689 | 55 | 0.328311 | 9.956734 | 10 | 50 | |
| 7 31.5 | 20 | 20 | 9.628468 | 45 | 9.671744 | 55 | 0.328256 | 9.956724 | 10 | 40 | |
| 8 36.0 | 30 | 30 | 9.628513 | 45 | 9.671799 | 55 | 0.328201 | 9.956714 | 10 | 30 | |
| 9 40.5 | 40 | 40 | 9.628558 | 45 | 9.671853 | 55 | 0.328147 | 9.956704 | 10 | 20 | |
| | 50 | 50 | 9.628602 | 44 | 9.671908 | 55 | 0.328092 | 9.956694 | 10 | 10 | |
| | 10 | 0 | 9.628647 | 45 | 9.671963 | 55 | 0.328037 | 9.956684 | 10 | 0 | 50 |
| | ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.628647 | | 9.671963 | | 0.328037 | 9.956684 | | 0 | 50 |
| | 10 | 9.628692 | 45 | 9.672018 | 55 | 0.327982 | 9.956674 | 10 | 50 | |
| | 20 | 9.628737 | 45 | 9.672072 | 54 | 0.327928 | 9.956665 | 9 | 40 | |
| | 30 | 9.628782 | 45 | 9.672127 | 55 | 0.327873 | 9.956655 | 10 | 30 | |
| | 40 | 9.628826 | 44 | 9.672182 | 55 | 0.327818 | 9.956645 | 10 | 20 | |
| | 50 | 9.628871 | 45 | 9.672236 | 54 | 0.327764 | 9.956635 | 10 | 10 | |
| 11 | 0 | 9.628916 | 45 | 9.672291 | 55 | 0.327709 | 9.956625 | 10 | 0 | 49 |
| | 10 | 9.628961 | 45 | 9.672346 | 55 | 0.327654 | 9.956615 | 10 | 50 | |
| | 20 | 9.629006 | 44 | 9.672400 | 54 | 0.327600 | 9.956605 | 10 | 40 | |
| | 30 | 9.629050 | 44 | 9.672455 | 55 | 0.327545 | 9.956595 | 10 | 30 | |
| | 40 | 9.629095 | 45 | 9.672510 | 55 | 0.327490 | 9.956585 | 10 | 20 | |
| | 50 | 9.629140 | 45 | 9.672564 | 54 | 0.327436 | 9.956575 | 10 | 10 | |
| 12 | 0 | 9.629185 | 45 | 9.672619 | 55 | 0.327381 | 9.956566 | 9 | 0 | 48 |
| | 10 | 9.629229 | 44 | 9.672674 | 55 | 0.327326 | 9.956556 | 10 | 50 | |
| | 20 | 9.629274 | 45 | 9.672728 | 54 | 0.327272 | 9.956546 | 10 | 40 | |
| | 30 | 9.629319 | 45 | 9.672783 | 55 | 0.327217 | 9.956536 | 10 | 30 | |
| | 40 | 9.629363 | 44 | 9.672838 | 55 | 0.327162 | 9.956526 | 10 | 20 | |
| | 50 | 9.629408 | 45 | 9.672892 | 54 | 0.327108 | 9.956516 | 10 | 10 | |
| 13 | 0 | 9.629453 | 45 | 9.672947 | 55 | 0.327053 | 9.956506 | 10 | 0 | 47 |
| | 10 | 9.629498 | 45 | 9.673001 | 54 | 0.326999 | 9.956496 | 10 | 50 | |
| | 20 | 9.629542 | 44 | 9.673056 | 55 | 0.326944 | 9.956486 | 10 | 40 | |
| | 30 | 9.629587 | 45 | 9.673111 | 55 | 0.326889 | 9.956476 | 10 | 30 | |
| | 40 | 9.629632 | 45 | 9.673165 | 54 | 0.326835 | 9.956466 | 10 | 20 | |
| | 50 | 9.629676 | 44 | 9.673220 | 55 | 0.326780 | 9.956457 | 9 | 10 | |
| 14 | 0 | 9.629721 | 45 | 9.673274 | 54 | 0.326726 | 9.956447 | 10 | 0 | 46 |
| | 10 | 9.629766 | 45 | 9.673329 | 55 | 0.326671 | 9.956437 | 10 | 50 | |
| | 20 | 9.629810 | 44 | 9.673384 | 55 | 0.326616 | 9.956427 | 10 | 40 | |
| | 30 | 9.629855 | 45 | 9.673438 | 54 | 0.326562 | 9.956417 | 10 | 30 | |
| | 40 | 9.629900 | 45 | 9.673493 | 55 | 0.326507 | 9.956407 | 10 | 20 | |
| | 50 | 9.629944 | 44 | 9.673547 | 55 | 0.326453 | 9.956397 | 10 | 10 | |
| 15 | 0 | 9.629989 | 45 | 9.673602 | 55 | 0.326398 | 9.956387 | 10 | 0 | 45 |
| | 10 | 9.630034 | 45 | 9.673657 | 55 | 0.326343 | 9.956377 | 10 | 50 | |
| | 20 | 9.630078 | 44 | 9.673711 | 54 | 0.326289 | 9.956367 | 10 | 40 | |
| | 30 | 9.630123 | 45 | 9.673766 | 55 | 0.326234 | 9.956357 | 10 | 30 | |
| | 40 | 9.630168 | 45 | 9.673820 | 54 | 0.326180 | 9.956347 | 10 | 20 | |
| | 50 | 9.630212 | 44 | 9.673875 | 55 | 0.326125 | 9.956337 | 10 | 10 | |
| 16 | 0 | 9.630257 | 45 | 9.673929 | 54 | 0.326071 | 9.956327 | 10 | 0 | 44 |
| | 10 | 9.630301 | 44 | 9.673984 | 55 | 0.326016 | 9.956317 | 10 | 50 | |
| | 20 | 9.630346 | 45 | 9.674038 | 54 | 0.325962 | 9.956308 | 9 | 40 | |
| | 30 | 9.630391 | 45 | 9.674093 | 55 | 0.325907 | 9.956298 | 10 | 30 | |
| | 40 | 9.630435 | 44 | 9.674148 | 55 | 0.325852 | 9.956288 | 10 | 20 | |
| | 50 | 9.630480 | 45 | 9.674202 | 54 | 0.325797 | 9.956278 | 10 | 10 | |
| 17 | 0 | 9.630524 | 44 | 9.674257 | 55 | 0.325743 | 9.956268 | 1 | 0 | 43 |
| | 10 | 9.630569 | 45 | 9.674311 | 54 | 0.325688 | 9.956258 | 1 | 50 | |
| | 20 | 9.630613 | 44 | 9.674366 | 55 | 0.325634 | 9.956248 | 10 | 40 | |
| | 30 | 9.630658 | 45 | 9.674420 | 54 | 0.325580 | 9.956238 | 10 | 30 | |
| | 40 | 9.630703 | 45 | 9.674475 | 55 | 0.325525 | 9.956228 | 10 | 20 | |
| | 50 | 9.630747 | 44 | 9.674529 | 54 | 0.325471 | 9.956218 | 10 | 10 | |
| 18 | 0 | 9.630792 | 45 | 9.674584 | 55 | 0.325416 | 9.956208 | 10 | 0 | 42 |
| | 10 | 9.630836 | 44 | 9.674638 | 54 | 0.325362 | 9.956198 | 10 | 50 | |
| | 20 | 9.630881 | 45 | 9.674693 | 55 | 0.325307 | 9.956188 | 10 | 40 | |
| | 30 | 9.630925 | 44 | 9.674747 | 54 | 0.325253 | 9.956178 | 10 | 30 | |
| | 40 | 9.630970 | 45 | 9.674802 | 55 | 0.325198 | 9.956168 | 10 | 20 | |
| | 50 | 9.631014 | 44 | 9.674856 | 54 | 0.325144 | 9.956158 | 10 | 10 | |
| 19 | 0 | 9.631059 | 45 | 9.674911 | 55 | 0.325089 | 9.956148 | 10 | 0 | 41 |
| | 10 | 9.631103 | 44 | 9.674965 | 54 | 0.325035 | 9.956138 | 10 | 50 | |
| | 20 | 9.631148 | 45 | 9.675019 | 55 | 0.324981 | 9.956128 | 10 | 40 | |
| | 30 | 9.631192 | 44 | 9.675074 | 55 | 0.324926 | 9.956118 | 10 | 30 | |
| | 40 | 9.631237 | 45 | 9.675128 | 54 | 0.324872 | 9.956108 | 10 | 20 | |
| | 50 | 9.631281 | 44 | 9.675183 | 55 | 0.324817 | 9.956099 | 9 | 10 | |
| 20 | 0 | 9.631326 | 45 | 9.675237 | 54 | 0.324763 | 9.956089 | 10 | 0 | 40 |

55

1 5.5

2 11.0

3 16.5

4 22.0

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6 33.0

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1 5.4

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1 4.5

2 9.0

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44

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| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----------|----------|------|----------|----------|----|----|----|
| | 20 | 0 | 9.631326 | 9.675237 | 55 | 0.324763 | 9.956089 | 10 | 0 | 40 |
| 55 | 10 | 9.631370 | 44 | 9.675292 | 54 | 0.324708 | 9.956079 | 10 | 50 | |
| 1 5.5 | 20 | 9.631415 | 45 | 9.675346 | 55 | 0.324654 | 9.956069 | 10 | 40 | |
| 2 11.0 | 30 | 9.631459 | 44 | 9.675401 | 55 | 0.324599 | 9.956059 | 10 | 30 | |
| 3 16.5 | 40 | 9.631504 | 45 | 9.675455 | 54 | 0.324545 | 9.956049 | 10 | 20 | |
| 4 22.0 | 50 | 9.631548 | 44 | 9.675509 | 55 | 0.324491 | 9.956039 | 10 | 10 | |
| 5 27.5 | 0 | 9.631593 | 45 | 9.675564 | 55 | 0.324436 | 9.955979 | 10 | 0 | 39 |
| 6 33.0 | 10 | 9.631637 | 44 | 9.675618 | 54 | 0.324382 | 9.955969 | 10 | 50 | |
| 7 38.5 | 20 | 9.631681 | 44 | 9.675673 | 55 | 0.324327 | 9.956009 | 10 | 40 | |
| 8 44.0 | 30 | 9.631726 | 45 | 9.675727 | 54 | 0.324273 | 9.955999 | 10 | 30 | |
| 9 49.5 | 40 | 9.631770 | 44 | 9.675781 | 55 | 0.324219 | 9.955989 | 10 | 20 | |
| | 50 | 9.631815 | 45 | 9.675836 | 55 | 0.324164 | 9.955979 | 10 | 10 | |
| 54 | 0 | 9.631859 | 44 | 9.675890 | 54 | 0.324110 | 9.955969 | 10 | 0 | 38 |
| 1 5.4 | 10 | 9.631904 | 45 | 9.675945 | 55 | 0.324055 | 9.955959 | 10 | 50 | |
| 2 10.8 | 20 | 9.631948 | 44 | 9.675999 | 54 | 0.324001 | 9.955949 | 10 | 40 | |
| 3 16.2 | 30 | 9.631992 | 44 | 9.676053 | 54 | 0.323947 | 9.955939 | 10 | 30 | |
| 4 21.6 | 40 | 9.632037 | 45 | 9.676108 | 55 | 0.323892 | 9.955929 | 10 | 20 | |
| 5 27.0 | 50 | 9.632081 | 44 | 9.676162 | 54 | 0.323838 | 9.955919 | 10 | 10 | |
| 6 32.4 | 0 | 9.632125 | 44 | 9.676217 | 55 | 0.323783 | 9.955909 | 10 | 0 | 37 |
| 7 37.8 | 10 | 9.632170 | 45 | 9.676271 | 54 | 0.323729 | 9.955899 | 10 | 50 | |
| 8 43.2 | 20 | 9.632214 | 44 | 9.676325 | 55 | 0.323675 | 9.955889 | 10 | 40 | |
| 9 48.6 | 30 | 9.632259 | 45 | 9.676380 | 55 | 0.323620 | 9.955879 | 10 | 30 | |
| | 40 | 9.632303 | 44 | 9.676434 | 54 | 0.323566 | 9.955869 | 10 | 20 | |
| | 50 | 9.632347 | 44 | 9.676488 | 54 | 0.323512 | 9.955859 | 10 | 10 | |
| * | 0 | 9.632392 | 45 | 9.676543 | 55 | 0.323457 | 9.955849 | 10 | 0 | 36 |
| 45 | 10 | 9.632436 | 44 | 9.676597 | 54 | 0.323403 | 9.955839 | 10 | 50 | |
| 1 4.5 | 20 | 9.632480 | 44 | 9.676651 | 55 | 0.323349 | 9.955829 | 10 | 40 | |
| 2 9.0 | 30 | 9.632525 | 45 | 9.676706 | 55 | 0.323294 | 9.955819 | 10 | 30 | |
| 3 13.5 | 40 | 9.632569 | 44 | 9.676760 | 54 | 0.323240 | 9.955809 | 10 | 20 | |
| 4 18.0 | 50 | 9.632613 | 44 | 9.676814 | 55 | 0.323186 | 9.955799 | 10 | 10 | |
| 5 22.5 | 0 | 9.632658 | 45 | 9.676869 | 54 | 0.323131 | 9.955789 | 10 | 0 | 35 |
| 6 27.0 | 10 | 9.632702 | 44 | 9.676923 | 55 | 0.323077 | 9.955779 | 10 | 50 | |
| 7 31.5 | 20 | 9.632746 | 44 | 9.676977 | 54 | 0.323023 | 9.955769 | 10 | 40 | |
| 8 36.0 | 30 | 9.632790 | 44 | 9.677032 | 55 | 0.322968 | 9.955759 | 10 | 30 | |
| 9 40.5 | 40 | 9.632835 | 45 | 9.677086 | 54 | 0.322914 | 9.955749 | 10 | 20 | |
| | 50 | 9.632879 | 44 | 9.677140 | 54 | 0.322860 | 9.955739 | 10 | 10 | |
| 44 | 0 | 9.632923 | 44 | 9.677194 | 55 | 0.322806 | 9.955729 | 10 | 0 | 34 |
| 1 4.4 | 10 | 9.632968 | 45 | 9.677249 | 55 | 0.322751 | 9.955719 | 10 | 50 | |
| 2 8.8 | 20 | 9.633012 | 44 | 9.677303 | 54 | 0.322697 | 9.955709 | 10 | 40 | |
| 3 13.2 | 30 | 9.633056 | 44 | 9.677357 | 54 | 0.322643 | 9.955699 | 10 | 30 | |
| 4 17.6 | 40 | 9.633100 | 44 | 9.677412 | 55 | 0.322588 | 9.955689 | 10 | 20 | |
| 5 22.0 | 50 | 9.633145 | 45 | 9.677466 | 54 | 0.322534 | 9.955679 | 10 | 10 | |
| 6 26.4 | 0 | 9.633189 | 44 | 9.677520 | 54 | 0.322480 | 9.955669 | 10 | 0 | 33 |
| 7 30.8 | 10 | 9.633233 | 44 | 9.677574 | 54 | 0.322426 | 9.955659 | 10 | 50 | |
| 8 35.2 | 20 | 9.633277 | 44 | 9.677629 | 55 | 0.322371 | 9.955649 | 10 | 40 | |
| 9 39.6 | 30 | 9.633322 | 45 | 9.677683 | 54 | 0.322317 | 9.955639 | 10 | 30 | |
| | 40 | 9.633366 | 44 | 9.677737 | 54 | 0.322263 | 9.955629 | 10 | 20 | |
| | 50 | 9.633410 | 44 | 9.677791 | 55 | 0.322209 | 9.955619 | 10 | 10 | |
| * | 0 | 9.633454 | 44 | 9.677846 | 55 | 0.322154 | 9.955609 | 10 | 0 | 32 |
| 44 | 10 | 9.633498 | 44 | 9.677900 | 54 | 0.322100 | 9.955599 | 10 | 50 | |
| 1 4.4 | 20 | 9.633543 | 45 | 9.677954 | 54 | 0.322046 | 9.955589 | 10 | 40 | |
| 2 8.8 | 30 | 9.633587 | 44 | 9.678008 | 54 | 0.321992 | 9.955579 | 10 | 30 | |
| 3 13.2 | 40 | 9.633631 | 44 | 9.678062 | 55 | 0.321938 | 9.955569 | 10 | 20 | |
| 4 17.6 | 50 | 9.633675 | 44 | 9.678117 | 55 | 0.321883 | 9.955559 | 10 | 10 | |
| 5 22.0 | 0 | 9.633719 | 44 | 9.678171 | 54 | 0.321829 | 9.955548 | 10 | 0 | 31 |
| 6 26.4 | 10 | 9.633764 | 45 | 9.678225 | 54 | 0.321775 | 9.955538 | 10 | 50 | |
| 7 30.8 | 20 | 9.633808 | 44 | 9.678279 | 54 | 0.321721 | 9.955528 | 10 | 40 | |
| 8 35.2 | 30 | 9.633852 | 44 | 9.678334 | 55 | 0.321666 | 9.955518 | 10 | 30 | |
| 9 39.6 | 40 | 9.633896 | 44 | 9.678388 | 54 | 0.321612 | 9.955508 | 10 | 20 | |
| | 50 | 9.633940 | 44 | 9.678442 | 54 | 0.321558 | 9.955498 | 10 | 10 | |
| | 0 | 9.633984 | 44 | 9.678496 | 54 | 0.321504 | 9.955488 | 10 | 0 | 30 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.633984 | | 9.678496 | | 0.321504 | 9.955488 | | | 30 |
| | 10 | 9.634028 | 44 | 9.678550 | 54 | 0.321450 | 9.955478 | 10 | 0 | |
| | 20 | 9.634073 | 45 | 9.678604 | 54 | 0.321396 | 9.955468 | 10 | 50 | |
| | 30 | 9.634117 | 44 | 9.678659 | 55 | 0.321341 | 9.955458 | 10 | 40 | |
| | 40 | 9.634161 | 44 | 9.678713 | 54 | 0.321287 | 9.955448 | 10 | 30 | |
| | 50 | 9.634205 | 44 | 9.678767 | 54 | 0.321233 | 9.955438 | 10 | 20 | |
| 31 | 0 | 9.634249 | | 9.678821 | | 0.321179 | 9.955428 | 10 | 10 | |
| | 10 | 9.634293 | 44 | 9.678875 | 54 | 0.321125 | 9.955418 | 10 | 0 | |
| | 20 | 9.634337 | 44 | 9.678929 | 54 | 0.321071 | 9.955408 | 10 | 50 | |
| | 30 | 9.634381 | 44 | 9.678984 | 55 | 0.321016 | 9.955398 | 10 | 40 | |
| | 40 | 9.634426 | 45 | 9.679038 | 54 | 0.320962 | 9.955388 | 10 | 30 | |
| | 50 | 9.634470 | 44 | 9.679092 | 54 | 0.320908 | 9.955378 | 10 | 20 | |
| 32 | 0 | 9.634514 | | 9.679146 | | 0.320854 | 9.955368 | 10 | 10 | |
| | 10 | 9.634558 | 44 | 9.679200 | 54 | 0.320800 | 9.955358 | 10 | 0 | |
| | 20 | 9.634602 | 44 | 9.679254 | 54 | 0.320746 | 9.955348 | 10 | 50 | |
| | 30 | 9.634646 | 44 | 9.679308 | 54 | 0.320692 | 9.955338 | 10 | 40 | |
| | 40 | 9.634690 | 44 | 9.679363 | 55 | 0.320637 | 9.955327 | 10 | 30 | |
| | 50 | 9.634734 | 44 | 9.679417 | 54 | 0.320583 | 9.955317 | 10 | 20 | |
| 33 | 0 | 9.634778 | | 9.679471 | | 0.320529 | 9.955307 | 10 | 10 | |
| | 10 | 9.634822 | 44 | 9.679525 | 54 | 0.320475 | 9.955297 | 10 | 0 | |
| | 20 | 9.634866 | 44 | 9.679579 | 54 | 0.320421 | 9.955287 | 10 | 50 | |
| | 30 | 9.634910 | 44 | 9.679633 | 54 | 0.320367 | 9.955277 | 10 | 40 | |
| | 40 | 9.634954 | 44 | 9.679687 | 54 | 0.320313 | 9.955267 | 10 | 30 | |
| | 50 | 9.634998 | 44 | 9.679741 | 54 | 0.320259 | 9.955257 | 10 | 20 | |
| 34 | 0 | 9.635042 | | 9.679795 | | 0.320205 | 9.955247 | 10 | 10 | |
| | 10 | 9.635086 | 44 | 9.679849 | 54 | 0.320151 | 9.955237 | 10 | 0 | |
| | 20 | 9.635130 | 44 | 9.679904 | 55 | 0.320096 | 9.955227 | 10 | 50 | |
| | 30 | 9.635174 | 44 | 9.679958 | 54 | 0.320042 | 9.955217 | 10 | 40 | |
| | 40 | 9.635218 | 44 | 9.680012 | 54 | 0.319988 | 9.955207 | 10 | 30 | |
| | 50 | 9.635262 | 44 | 9.680066 | 54 | 0.319934 | 9.955196 | 10 | 20 | |
| 35 | 0 | 9.635306 | | 9.680120 | | 0.319880 | 9.955186 | 10 | 10 | |
| | 10 | 9.635350 | 44 | 9.680174 | 54 | 0.319826 | 9.955176 | 10 | 0 | |
| | 20 | 9.635394 | 44 | 9.680228 | 54 | 0.319772 | 9.955166 | 10 | 50 | |
| | 30 | 9.635438 | 44 | 9.680282 | 54 | 0.319718 | 9.955156 | 10 | 40 | |
| | 40 | 9.635482 | 44 | 9.680336 | 54 | 0.319664 | 9.955146 | 10 | 30 | |
| | 50 | 9.635526 | 44 | 9.680390 | 54 | 0.319610 | 9.955136 | 10 | 20 | |
| 36 | 0 | 9.635570 | | 9.680444 | | 0.319556 | 9.955126 | 10 | 10 | |
| | 10 | 9.635614 | 44 | 9.680498 | 54 | 0.319502 | 9.955116 | 10 | 0 | |
| | 20 | 9.635658 | 44 | 9.680552 | 54 | 0.319448 | 9.955106 | 10 | 50 | |
| | 30 | 9.635702 | 44 | 9.680606 | 54 | 0.319394 | 9.955096 | 10 | 40 | |
| | 40 | 9.635746 | 44 | 9.680660 | 54 | 0.319340 | 9.955086 | 10 | 30 | |
| | 50 | 9.635790 | 44 | 9.680714 | 54 | 0.319286 | 9.955075 | 10 | 20 | |
| 37 | 0 | 9.635834 | | 9.680768 | | 0.319232 | 9.955065 | 10 | 10 | |
| | 10 | 9.635877 | 43 | 9.680822 | 54 | 0.319178 | 9.955055 | 10 | 0 | |
| | 20 | 9.635921 | 44 | 9.680876 | 54 | 0.319124 | 9.955045 | 10 | 50 | |
| | 30 | 9.635965 | 44 | 9.680930 | 54 | 0.319070 | 9.955035 | 10 | 40 | |
| | 40 | 9.636009 | 44 | 9.680984 | 54 | 0.319016 | 9.955025 | 10 | 30 | |
| | 50 | 9.636053 | 44 | 9.681038 | 54 | 0.318962 | 9.955015 | 10 | 20 | |
| 38 | 0 | 9.636097 | | 9.681092 | | 0.318908 | 9.955005 | 10 | 10 | |
| | 10 | 9.636141 | 44 | 9.681146 | 54 | 0.318854 | 9.954995 | 10 | 0 | |
| | 20 | 9.636185 | 44 | 9.681200 | 54 | 0.318800 | 9.954985 | 10 | 50 | |
| | 30 | 9.636229 | 44 | 9.681254 | 54 | 0.318746 | 9.954974 | 10 | 40 | |
| | 40 | 9.636272 | 43 | 9.681308 | 54 | 0.318692 | 9.954964 | 10 | 30 | |
| | 50 | 9.636316 | 44 | 9.681362 | 54 | 0.318638 | 9.954954 | 10 | 20 | |
| 39 | 0 | 9.636360 | | 9.681416 | | 0.318584 | 9.954944 | 10 | 10 | |
| | 10 | 9.636404 | 44 | 9.681470 | 54 | 0.318530 | 9.954934 | 10 | 0 | |
| | 20 | 9.636448 | 44 | 9.681524 | 54 | 0.318476 | 9.954924 | 10 | 50 | |
| | 30 | 9.636492 | 44 | 9.681578 | 54 | 0.318422 | 9.954914 | 10 | 40 | |
| | 40 | 9.636535 | 43 | 9.681632 | 54 | 0.318368 | 9.954904 | 10 | 30 | |
| | 50 | 9.636579 | 44 | 9.681686 | 54 | 0.318314 | 9.954894 | 10 | 20 | |
| 40 | 0 | 9.636623 | | 9.681740 | | 0.318260 | 9.954883 | 10 | 10 | |

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| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 40 | 0 | 9.636623 | 44 | 9.681740 | 54 | 0.318260 | 9.954883 | 10 | 0 | 20 |
| 54 | 10 | 9.636667 | 44 | 9.681794 | 53 | 0.318206 | 9.954873 | 10 | 50 | |
| 1 54 | 20 | 9.636711 | 43 | 9.681847 | 54 | 0.318153 | 9.954863 | 10 | 40 | |
| 2 10.8 | 30 | 9.636754 | 44 | 9.681901 | 54 | 0.318099 | 9.954853 | 10 | 30 | |
| 3 16.2 | 40 | 9.636798 | 44 | 9.681955 | 54 | 0.318045 | 9.954843 | 10 | 20 | |
| 4 21.6 | 50 | 9.636842 | 44 | 9.682009 | 54 | 0.317991 | 9.954833 | 10 | 10 | |
| 5 27.0 | 0 | 9.636886 | 44 | 9.682063 | 54 | 0.317937 | 9.954823 | 10 | 0 | 19 |
| 6 32.4 | 10 | 9.636930 | 44 | 9.682117 | 54 | 0.317883 | 9.954813 | 10 | 50 | |
| 7 37.8 | 20 | 9.636973 | 44 | 9.682171 | 54 | 0.317829 | 9.954802 | 10 | 40 | |
| 8 43.2 | 30 | 9.637017 | 44 | 9.682225 | 54 | 0.317775 | 9.954792 | 10 | 30 | |
| 9 48.6 | 40 | 9.637061 | 44 | 9.682279 | 54 | 0.317721 | 9.954782 | 10 | 20 | |
| | 50 | 9.637105 | 43 | 9.682333 | 54 | 0.317667 | 9.954772 | 10 | 10 | |
| 53 | 0 | 9.637148 | 44 | 9.682387 | 54 | 0.317613 | 9.954762 | 10 | 0 | 18 |
| 1 53 | 10 | 9.637192 | 44 | 9.682440 | 54 | 0.317560 | 9.954752 | 10 | 50 | |
| 2 10.6 | 20 | 9.637236 | 44 | 9.682494 | 54 | 0.317506 | 9.954742 | 10 | 40 | |
| 3 15.9 | 30 | 9.637280 | 44 | 9.682548 | 54 | 0.317452 | 9.954732 | 10 | 30 | |
| 4 21.2 | 40 | 9.637323 | 43 | 9.682602 | 54 | 0.317398 | 9.954721 | 10 | 20 | |
| 5 26.5 | 50 | 9.637367 | 44 | 9.682656 | 54 | 0.317344 | 9.954711 | 10 | 10 | |
| 6 31.8 | 0 | 9.637411 | 44 | 9.682710 | 54 | 0.317290 | 9.954701 | 10 | 0 | 17 |
| 7 37.1 | 10 | 9.637455 | 44 | 9.682764 | 54 | 0.317236 | 9.954691 | 10 | 50 | |
| 8 42.4 | 20 | 9.637498 | 43 | 9.682817 | 53 | 0.317183 | 9.954681 | 10 | 40 | |
| 9 47.7 | 30 | 9.637542 | 44 | 9.682871 | 54 | 0.317129 | 9.954671 | 10 | 30 | |
| * | 40 | 9.637586 | 44 | 9.682925 | 54 | 0.317075 | 9.954661 | 10 | 20 | |
| | 50 | 9.637629 | 44 | 9.682979 | 54 | 0.317021 | 9.954651 | 10 | 10 | |
| 44 | 0 | 9.637673 | 44 | 9.683033 | 54 | 0.316967 | 9.954641 | 10 | 0 | 16 |
| 1 44 | 10 | 9.637717 | 44 | 9.683087 | 54 | 0.316913 | 9.954630 | 10 | 50 | |
| 2 8.8 | 20 | 9.637760 | 44 | 9.683140 | 53 | 0.316860 | 9.954620 | 10 | 40 | |
| 3 13.2 | 30 | 9.637804 | 44 | 9.683194 | 54 | 0.316806 | 9.954610 | 10 | 30 | |
| 4 17.6 | 40 | 9.637848 | 44 | 9.683248 | 54 | 0.316752 | 9.954600 | 10 | 20 | |
| 5 22.0 | 50 | 9.637891 | 43 | 9.683302 | 54 | 0.316698 | 9.954589 | 10 | 10 | |
| 6 26.4 | 0 | 9.637935 | 44 | 9.683356 | 54 | 0.316644 | 9.954579 | 10 | 0 | 15 |
| 7 30.8 | 10 | 9.637979 | 44 | 9.683410 | 54 | 0.316590 | 9.954569 | 10 | 50 | |
| 8 35.2 | 20 | 9.638022 | 43 | 9.683463 | 53 | 0.316537 | 9.954559 | 10 | 40 | |
| 9 39.6 | 30 | 9.638066 | 44 | 9.683517 | 54 | 0.316483 | 9.954549 | 10 | 30 | |
| | 40 | 9.638110 | 44 | 9.683571 | 54 | 0.316429 | 9.954539 | 10 | 20 | |
| 43 | 50 | 9.638153 | 43 | 9.683625 | 54 | 0.316375 | 9.954529 | 10 | 10 | |
| 1 43 | 0 | 9.638197 | 43 | 9.683679 | 54 | 0.316321 | 9.954518 | 10 | 0 | 14 |
| 2 8.6 | 10 | 9.638240 | 44 | 9.683732 | 53 | 0.316268 | 9.954508 | 10 | 50 | |
| 3 12.9 | 20 | 9.638284 | 44 | 9.683786 | 54 | 0.316214 | 9.954498 | 10 | 40 | |
| 4 17.2 | 30 | 9.638328 | 44 | 9.683840 | 54 | 0.316160 | 9.954488 | 10 | 30 | |
| 5 21.5 | 40 | 9.638371 | 43 | 9.683894 | 54 | 0.316106 | 9.954478 | 10 | 20 | |
| 6 25.8 | 50 | 9.638415 | 43 | 9.683947 | 53 | 0.316053 | 9.954468 | 10 | 10 | |
| 7 30.1 | 0 | 9.638458 | 44 | 9.684001 | 54 | 0.315999 | 9.954457 | 10 | 0 | 13 |
| 8 34.4 | 10 | 9.638502 | 44 | 9.684055 | 54 | 0.315945 | 9.954447 | 10 | 50 | |
| 9 38.7 | 20 | 9.638546 | 44 | 9.684109 | 54 | 0.315891 | 9.954437 | 10 | 40 | |
| * | 30 | 9.638589 | 43 | 9.684162 | 53 | 0.315838 | 9.954427 | 10 | 30 | |
| | 40 | 9.638633 | 44 | 9.684216 | 54 | 0.315784 | 9.954417 | 10 | 20 | |
| | 50 | 9.638676 | 44 | 9.684270 | 54 | 0.315730 | 9.954406 | 10 | 10 | |
| 11 | 0 | 9.638720 | 44 | 9.684324 | 54 | 0.315676 | 9.954396 | 10 | 0 | 12 |
| 1 11 | 10 | 9.638763 | 43 | 9.684377 | 53 | 0.315623 | 9.954386 | 10 | 50 | |
| 2 2.2 | 20 | 9.638807 | 44 | 9.684431 | 54 | 0.315569 | 9.954376 | 10 | 40 | |
| 3 3.3 | 30 | 9.638851 | 44 | 9.684485 | 54 | 0.315515 | 9.954366 | 10 | 30 | |
| 4 4.4 | 40 | 9.638894 | 43 | 9.684539 | 54 | 0.315461 | 9.954356 | 10 | 20 | |
| 5 5.5 | 50 | 9.638938 | 43 | 9.684592 | 53 | 0.315407 | 9.954346 | 10 | 10 | |
| 6 6.6 | 0 | 9.638981 | 44 | 9.684646 | 54 | 0.315353 | 9.954335 | 10 | 0 | 11 |
| 7 7.7 | 10 | 9.639025 | 44 | 9.684700 | 54 | 0.315300 | 9.954325 | 10 | 50 | |
| 8 8.8 | 20 | 9.639068 | 43 | 9.684753 | 53 | 0.315247 | 9.954315 | 10 | 40 | |
| 9 9.9 | 30 | 9.639112 | 44 | 9.684807 | 54 | 0.315193 | 9.954305 | 10 | 30 | |
| | 40 | 9.639155 | 43 | 9.684861 | 54 | 0.315139 | 9.954294 | 10 | 20 | |
| | 50 | 9.639199 | 44 | 9.684914 | 53 | 0.315086 | 9.954284 | 10 | 10 | |
| 50 | 0 | 9.639242 | 43 | 9.684968 | 54 | 0.315032 | 9.954274 | 10 | 0 | 10 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | o | 9.639242 | 44 | 9.684968 | 54 | 0.315032 | 9.954274 | 10 | o | 10 |
| | 10 | 9.639286 | 43 | 9.685022 | 53 | 0.314978 | 9.954264 | 10 | 50 | |
| | 20 | 9.639329 | 44 | 9.685075 | 54 | 0.314925 | 9.954254 | 10 | 40 | |
| | 30 | 9.639373 | 43 | 9.685129 | 54 | 0.314871 | 9.954243 | 10 | 30 | |
| | 40 | 9.639416 | 44 | 9.685183 | 53 | 0.314817 | 9.954233 | 10 | 20 | |
| | 50 | 9.639460 | 44 | 9.685236 | 54 | 0.314764 | 9.954223 | 10 | 10 | |
| 51 | o | 9.639503 | 43 | 9.685290 | 54 | 0.314710 | 9.954213 | 10 | o | 9 |
| | 10 | 9.639546 | 44 | 9.685344 | 53 | 0.314656 | 9.954203 | 10 | 50 | |
| | 20 | 9.639590 | 43 | 9.685397 | 54 | 0.314603 | 9.954192 | 10 | 40 | |
| | 30 | 9.639633 | 44 | 9.685451 | 54 | 0.314549 | 9.954182 | 10 | 30 | |
| | 40 | 9.639677 | 43 | 9.685505 | 53 | 0.314495 | 9.954172 | 10 | 20 | |
| | 50 | 9.639720 | 44 | 9.685558 | 54 | 0.314442 | 9.954162 | 10 | 10 | |
| 52 | o | 9.639764 | 43 | 9.685612 | 54 | 0.314388 | 9.954152 | 10 | o | 8 |
| | 10 | 9.639807 | 44 | 9.685666 | 53 | 0.314334 | 9.954141 | 10 | 50 | |
| | 20 | 9.639851 | 43 | 9.685719 | 54 | 0.314281 | 9.954131 | 10 | 40 | |
| | 30 | 9.639894 | 44 | 9.685773 | 54 | 0.314227 | 9.954121 | 10 | 30 | |
| | 40 | 9.639937 | 43 | 9.685827 | 53 | 0.314173 | 9.954111 | 10 | 20 | |
| | 50 | 9.639981 | 44 | 9.685880 | 54 | 0.314120 | 9.954101 | 10 | 10 | |
| 53 | o | 9.640024 | 43 | 9.685934 | 53 | 0.314066 | 9.954090 | 10 | o | 7 |
| | 10 | 9.640068 | 44 | 9.685987 | 54 | 0.314013 | 9.954080 | 10 | 50 | |
| | 20 | 9.640111 | 43 | 9.686041 | 54 | 0.313959 | 9.954070 | 10 | 40 | |
| | 30 | 9.640154 | 44 | 9.686095 | 53 | 0.313905 | 9.954060 | 10 | 30 | |
| | 40 | 9.640198 | 43 | 9.686148 | 54 | 0.313852 | 9.954050 | 10 | 20 | |
| | 50 | 9.640241 | 44 | 9.686202 | 53 | 0.313798 | 9.954039 | 10 | 10 | |
| 54 | o | 9.640284 | 43 | 9.686255 | 54 | 0.313745 | 9.954029 | 10 | o | 6 |
| | 10 | 9.640328 | 44 | 9.686309 | 53 | 0.313691 | 9.954019 | 10 | 50 | |
| | 20 | 9.640371 | 43 | 9.686363 | 54 | 0.313637 | 9.954009 | 10 | 40 | |
| | 30 | 9.640414 | 44 | 9.686416 | 53 | 0.313584 | 9.953998 | 10 | 30 | |
| | 40 | 9.640458 | 43 | 9.686470 | 54 | 0.313530 | 9.953988 | 10 | 20 | |
| | 50 | 9.640501 | 44 | 9.686523 | 53 | 0.313477 | 9.953978 | 10 | 10 | |
| 55 | o | 9.640544 | 43 | 9.686577 | 54 | 0.313423 | 9.953968 | 10 | o | 5 |
| | 10 | 9.640588 | 44 | 9.686630 | 53 | 0.313370 | 9.953957 | 10 | 50 | |
| | 20 | 9.640631 | 43 | 9.686684 | 54 | 0.313316 | 9.953947 | 10 | 40 | |
| | 30 | 9.640674 | 44 | 9.686737 | 53 | 0.313263 | 9.953937 | 10 | 30 | |
| | 40 | 9.640718 | 43 | 9.686791 | 54 | 0.313209 | 9.953927 | 10 | 20 | |
| | 50 | 9.640761 | 44 | 9.686845 | 53 | 0.313155 | 9.953917 | 10 | 10 | |
| 56 | o | 9.640804 | 43 | 9.686895 | 54 | 0.313102 | 9.953906 | 10 | o | 4 |
| | 10 | 9.640848 | 44 | 9.686952 | 53 | 0.313048 | 9.953896 | 10 | 50 | |
| | 20 | 9.640891 | 43 | 9.687005 | 54 | 0.312995 | 9.953886 | 10 | 40 | |
| | 30 | 9.640934 | 44 | 9.687059 | 53 | 0.312941 | 9.953876 | 10 | 30 | |
| | 40 | 9.640978 | 43 | 9.687112 | 54 | 0.312888 | 9.953865 | 10 | 20 | |
| | 50 | 9.641021 | 44 | 9.687166 | 53 | 0.312834 | 9.953855 | 10 | 10 | |
| 57 | o | 9.641064 | 43 | 9.687219 | 54 | 0.312781 | 9.953845 | 10 | o | 3 |
| | 10 | 9.641107 | 44 | 9.687273 | 53 | 0.312727 | 9.953835 | 10 | 50 | |
| | 20 | 9.641151 | 43 | 9.687326 | 54 | 0.312674 | 9.953824 | 10 | 40 | |
| | 30 | 9.641194 | 44 | 9.687380 | 53 | 0.312620 | 9.953814 | 10 | 30 | |
| | 40 | 9.641237 | 43 | 9.687433 | 54 | 0.312567 | 9.953804 | 10 | 20 | |
| | 50 | 9.641280 | 44 | 9.687487 | 53 | 0.312513 | 9.953794 | 10 | 10 | |
| 58 | o | 9.641324 | 43 | 9.687540 | 54 | 0.312460 | 9.953783 | 10 | o | 2 |
| | 10 | 9.641367 | 44 | 9.687594 | 53 | 0.312406 | 9.953773 | 10 | 50 | |
| | 20 | 9.641410 | 43 | 9.687647 | 54 | 0.312353 | 9.953763 | 10 | 40 | |
| | 30 | 9.641453 | 44 | 9.687701 | 53 | 0.312299 | 9.953753 | 10 | 30 | |
| | 40 | 9.641496 | 43 | 9.687754 | 54 | 0.312246 | 9.953742 | 10 | 20 | |
| | 50 | 9.641540 | 44 | 9.687808 | 53 | 0.312192 | 9.953732 | 10 | 10 | |
| 59 | o | 9.641583 | 43 | 9.687861 | 54 | 0.312139 | 9.953722 | 10 | o | 1 |
| | 10 | 9.641626 | 44 | 9.687915 | 53 | 0.312085 | 9.953712 | 10 | 50 | |
| | 20 | 9.641669 | 43 | 9.687968 | 54 | 0.312032 | 9.953701 | 10 | 40 | |
| | 30 | 9.641712 | 44 | 9.688021 | 53 | 0.311979 | 9.953691 | 10 | 30 | |
| | 40 | 9.641756 | 43 | 9.688075 | 54 | 0.311925 | 9.953681 | 10 | 20 | |
| | 50 | 9.641799 | 44 | 9.688128 | 53 | 0.311872 | 9.953670 | 10 | 10 | |
| 60 | o | 9.641842 | 43 | 9.688182 | 54 | 0.311818 | 9.953660 | 10 | o | 0 |

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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 54 | 0 | 9.641842 | 43 | 9.688182 | 53 | 0.311818 | 9.953660 | 10 | 0 | 60 |
| 1 54.4 | 10 | 9.641885 | 43 | 9.688235 | 54 | 0.311765 | 9.953650 | 10 | 10 | |
| 2 10.8 | 20 | 9.641928 | 43 | 9.688289 | 54 | 0.311711 | 9.953640 | 10 | 40 | |
| 3 16.2 | 30 | 9.641971 | 43 | 9.688342 | 53 | 0.311658 | 9.953629 | 10 | 30 | |
| 4 21.6 | 40 | 9.642015 | 44 | 9.688395 | 53 | 0.311605 | 9.953619 | 10 | 20 | |
| 5 27.0 | 50 | 9.642058 | 43 | 9.688449 | 54 | 0.311551 | 9.953609 | 10 | 10 | |
| 6 32.4 | 1 | 9.642101 | 43 | 9.688502 | 54 | 0.311498 | 9.953599 | 10 | 0 | 59 |
| 7 37.8 | 10 | 9.642144 | 43 | 9.688556 | 53 | 0.311444 | 9.953588 | 10 | 50 | |
| 8 43.2 | 20 | 9.642187 | 43 | 9.688609 | 53 | 0.311391 | 9.953578 | 10 | 40 | |
| 9 48.6 | 30 | 9.642230 | 43 | 9.688663 | 54 | 0.311337 | 9.953568 | 10 | 30 | |
| | 40 | 9.642273 | 43 | 9.688716 | 53 | 0.311284 | 9.953557 | 10 | 20 | |
| | 50 | 9.642317 | 44 | 9.688769 | 53 | 0.311231 | 9.953547 | 10 | 10 | |
| 53 | 2 | 9.642360 | 43 | 9.688823 | 54 | 0.311177 | 9.953537 | 10 | 0 | 58 |
| 1 5.3 | 10 | 9.642403 | 43 | 9.688876 | 53 | 0.311124 | 9.953527 | 10 | 50 | |
| 2 10.6 | 20 | 9.642446 | 43 | 9.688930 | 54 | 0.311070 | 9.953516 | 10 | 40 | |
| 3 15.9 | 30 | 9.642489 | 43 | 9.688983 | 53 | 0.311017 | 9.953506 | 10 | 30 | |
| 4 21.2 | 40 | 9.642532 | 43 | 9.689036 | 53 | 0.310964 | 9.953496 | 10 | 20 | |
| 5 26.5 | 50 | 9.642575 | 43 | 9.689090 | 54 | 0.310910 | 9.953485 | 10 | 10 | |
| 6 31.8 | 3 | 9.642618 | 43 | 9.689143 | 53 | 0.310857 | 9.953475 | 10 | 0 | 57 |
| 7 37.1 | 10 | 9.642661 | 43 | 9.689196 | 53 | 0.310804 | 9.953465 | 10 | 50 | |
| 8 42.4 | 20 | 9.642704 | 43 | 9.689250 | 54 | 0.310750 | 9.953455 | 10 | 40 | |
| 9 47.7 | 30 | 9.642747 | 43 | 9.689303 | 53 | 0.310697 | 9.953444 | 10 | 30 | |
| * | 40 | 9.642790 | 43 | 9.689356 | 53 | 0.310644 | 9.953434 | 10 | 20 | |
| | 50 | 9.642833 | 43 | 9.689410 | 54 | 0.310590 | 9.953424 | 10 | 10 | |
| | 4 | 9.642877 | 44 | 9.689463 | 53 | 0.310537 | 9.953413 | 10 | 0 | 56 |
| 44 | 10 | 9.642920 | 43 | 9.689516 | 53 | 0.310484 | 9.953403 | 10 | 50 | |
| 1 4.4 | 20 | 9.642963 | 43 | 9.689570 | 54 | 0.310430 | 9.953393 | 10 | 40 | |
| 2 8.8 | 30 | 9.643006 | 43 | 9.689623 | 53 | 0.310377 | 9.953382 | 10 | 30 | |
| 3 13.2 | 40 | 9.643049 | 43 | 9.689676 | 53 | 0.310324 | 9.953372 | 10 | 20 | |
| 4 17.6 | 50 | 9.643092 | 43 | 9.689730 | 54 | 0.310270 | 9.953362 | 10 | 10 | |
| 5 22.0 | 5 | 9.643135 | 43 | 9.689783 | 53 | 0.310217 | 9.953352 | 10 | 0 | 55 |
| 6 26.4 | 10 | 9.643178 | 43 | 9.689836 | 53 | 0.310164 | 9.953341 | 10 | 50 | |
| 7 30.8 | 20 | 9.643221 | 43 | 9.689890 | 54 | 0.310110 | 9.953331 | 10 | 40 | |
| 8 35.2 | 30 | 9.643264 | 43 | 9.689943 | 53 | 0.310057 | 9.953321 | 10 | 30 | |
| 9 39.6 | 40 | 9.643307 | 43 | 9.689996 | 53 | 0.310004 | 9.953310 | 10 | 20 | |
| | 50 | 9.643350 | 43 | 9.690050 | 54 | 0.309950 | 9.953300 | 10 | 10 | |
| | 6 | 9.643393 | 43 | 9.690103 | 53 | 0.309897 | 9.953290 | 10 | 0 | 54 |
| 43 | 10 | 9.643436 | 43 | 9.690156 | 53 | 0.309844 | 9.953279 | 10 | 50 | |
| 1 4.3 | 20 | 9.643479 | 43 | 9.690210 | 54 | 0.309790 | 9.953269 | 10 | 40 | |
| 2 8.6 | 30 | 9.643522 | 43 | 9.690263 | 53 | 0.309737 | 9.953259 | 10 | 30 | |
| 3 12.9 | 40 | 9.643565 | 43 | 9.690316 | 53 | 0.309684 | 9.953248 | 10 | 20 | |
| 4 17.2 | 50 | 9.643607 | 42 | 9.690369 | 53 | 0.309631 | 9.953238 | 10 | 10 | |
| 5 21.5 | 7 | 9.643650 | 43 | 9.690423 | 54 | 0.309577 | 9.953228 | 10 | 0 | 53 |
| 6 25.8 | 10 | 9.643693 | 43 | 9.690476 | 53 | 0.309524 | 9.953217 | 10 | 50 | |
| 7 30.1 | 20 | 9.643736 | 43 | 9.690529 | 53 | 0.309471 | 9.953207 | 10 | 40 | |
| 8 34.4 | 30 | 9.643779 | 43 | 9.690582 | 53 | 0.309418 | 9.953197 | 10 | 30 | |
| 9 38.7 | 40 | 9.643822 | 43 | 9.690636 | 54 | 0.309364 | 9.953186 | 10 | 20 | |
| * | 50 | 9.643865 | 43 | 9.690689 | 53 | 0.309311 | 9.953176 | 10 | 10 | |
| | 8 | 9.643908 | 43 | 9.690742 | 53 | 0.309258 | 9.953166 | 10 | 0 | 52 |
| | 10 | 9.643951 | 43 | 9.690795 | 53 | 0.309205 | 9.953155 | 10 | 50 | |
| | 20 | 9.643994 | 43 | 9.690849 | 54 | 0.309151 | 9.953145 | 10 | 40 | |
| | 30 | 9.644037 | 43 | 9.690902 | 53 | 0.309098 | 9.953135 | 10 | 30 | |
| | 40 | 9.644080 | 43 | 9.690955 | 53 | 0.309045 | 9.953124 | 10 | 20 | |
| | 50 | 9.644123 | 42 | 9.691008 | 53 | 0.308992 | 9.953114 | 10 | 10 | |
| 11 | 9 | 9.644165 | 43 | 9.691062 | 54 | 0.308938 | 9.953104 | 10 | 0 | 51 |
| 1 1.1 | 10 | 9.644208 | 43 | 9.691115 | 53 | 0.308885 | 9.953093 | 10 | 50 | |
| 2 2.2 | 20 | 9.644251 | 43 | 9.691168 | 53 | 0.308832 | 9.953083 | 10 | 40 | |
| 3 3.3 | 30 | 9.644294 | 43 | 9.691221 | 53 | 0.308779 | 9.953073 | 10 | 30 | |
| 4 4.4 | 40 | 9.644337 | 43 | 9.691274 | 53 | 0.308726 | 9.953062 | 10 | 20 | |
| 5 5.5 | 50 | 9.644380 | 43 | 9.691328 | 54 | 0.308672 | 9.953052 | 10 | 10 | |
| 6 6.6 | 10 | 9.644423 | 43 | 9.691381 | 53 | 0.308619 | 9.953042 | 10 | 0 | 50 |
| 7 7.7 | | | | | | | | | | |
| 8 8.8 | | | | | | | | | | |
| 9 9.9 | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.644423 | 42 | 9.691381 | 53 | 0.308619 | 9.953042 | 11 | 0 | 50 |
| | 10 | 9.644465 | 43 | 9.691434 | 53 | 0.308566 | 9.953031 | 10 | 50 | |
| | 20 | 9.644508 | 43 | 9.691487 | 53 | 0.308513 | 9.953021 | 10 | 40 | |
| | 30 | 9.644551 | 43 | 9.691540 | 53 | 0.308460 | 9.953011 | 10 | 30 | |
| | 40 | 9.644594 | 43 | 9.691594 | 54 | 0.308406 | 9.953000 | 11 | 20 | |
| | 50 | 9.644637 | 43 | 9.691647 | 53 | 0.308353 | 9.952990 | 10 | 10 | |
| 11 | 0 | 9.644680 | 42 | 9.691700 | 53 | 0.308300 | 9.952980 | 10 | 0 | 49 |
| | 10 | 9.644722 | 43 | 9.691753 | 53 | 0.308247 | 9.952969 | 11 | 0 | |
| | 20 | 9.644765 | 43 | 9.691806 | 53 | 0.308194 | 9.952959 | 10 | 50 | |
| | 30 | 9.644808 | 43 | 9.691859 | 53 | 0.308141 | 9.952949 | 10 | 40 | |
| | 40 | 9.644851 | 43 | 9.691913 | 54 | 0.308087 | 9.952938 | 11 | 30 | |
| | 50 | 9.644894 | 43 | 9.691966 | 53 | 0.308034 | 9.952928 | 10 | 20 | |
| 12 | 0 | 9.644936 | 42 | 9.692019 | 53 | 0.307981 | 9.952918 | 10 | 10 | 48 |
| | 10 | 9.644979 | 43 | 9.692072 | 53 | 0.307928 | 9.952907 | 11 | 0 | |
| | 20 | 9.645022 | 43 | 9.692125 | 53 | 0.307875 | 9.952897 | 10 | 50 | |
| | 30 | 9.645065 | 43 | 9.692178 | 53 | 0.307822 | 9.952886 | 11 | 40 | |
| | 40 | 9.645108 | 43 | 9.692232 | 54 | 0.307768 | 9.952876 | 10 | 30 | |
| | 50 | 9.645150 | 42 | 9.692285 | 53 | 0.307715 | 9.952866 | 10 | 20 | |
| 13 | 0 | 9.645193 | 43 | 9.692338 | 53 | 0.307662 | 9.952855 | 11 | 10 | 47 |
| | 10 | 9.645236 | 43 | 9.692391 | 53 | 0.307609 | 9.952845 | 10 | 0 | |
| | 20 | 9.645279 | 43 | 9.692444 | 53 | 0.307556 | 9.952835 | 10 | 50 | |
| | 30 | 9.645321 | 42 | 9.692497 | 53 | 0.307503 | 9.952824 | 11 | 40 | |
| | 40 | 9.645364 | 43 | 9.692550 | 53 | 0.307450 | 9.952814 | 10 | 30 | |
| | 50 | 9.645407 | 43 | 9.692603 | 53 | 0.307397 | 9.952803 | 11 | 20 | |
| 14 | 0 | 9.645450 | 43 | 9.692656 | 53 | 0.307344 | 9.952793 | 10 | 10 | 46 |
| | 10 | 9.645492 | 42 | 9.692710 | 54 | 0.307290 | 9.952783 | 10 | 0 | |
| | 20 | 9.645535 | 43 | 9.692763 | 53 | 0.307237 | 9.952772 | 11 | 50 | |
| | 30 | 9.645578 | 43 | 9.692816 | 53 | 0.307184 | 9.952762 | 10 | 40 | |
| | 40 | 9.645620 | 42 | 9.692869 | 53 | 0.307131 | 9.952752 | 10 | 30 | |
| | 50 | 9.645663 | 43 | 9.692922 | 53 | 0.307078 | 9.952741 | 11 | 20 | |
| 15 | 0 | 9.645706 | 43 | 9.692975 | 53 | 0.307025 | 9.952731 | 10 | 10 | 45 |
| | 10 | 9.645749 | 43 | 9.693028 | 53 | 0.306972 | 9.952720 | 11 | 0 | |
| | 20 | 9.645791 | 42 | 9.693081 | 53 | 0.306919 | 9.952710 | 10 | 50 | |
| | 30 | 9.645834 | 43 | 9.693134 | 53 | 0.306866 | 9.952700 | 10 | 40 | |
| | 40 | 9.645877 | 43 | 9.693187 | 53 | 0.306813 | 9.952689 | 11 | 30 | |
| | 50 | 9.645920 | 42 | 9.693240 | 53 | 0.306760 | 9.952679 | 10 | 20 | |
| 16 | 0 | 9.645963 | 43 | 9.693293 | 53 | 0.306707 | 9.952669 | 10 | 10 | 44 |
| | 10 | 9.646005 | 43 | 9.693346 | 53 | 0.306654 | 9.952658 | 11 | 0 | |
| | 20 | 9.646047 | 42 | 9.693400 | 54 | 0.306600 | 9.952648 | 10 | 50 | |
| | 30 | 9.646090 | 43 | 9.693453 | 53 | 0.306547 | 9.952637 | 11 | 40 | |
| | 40 | 9.646133 | 43 | 9.693506 | 53 | 0.306494 | 9.952627 | 10 | 30 | |
| | 50 | 9.646175 | 42 | 9.693559 | 53 | 0.306441 | 9.952617 | 10 | 20 | |
| 17 | 0 | 9.646218 | 43 | 9.693612 | 53 | 0.306388 | 9.952606 | 11 | 10 | 43 |
| | 10 | 9.646260 | 42 | 9.693665 | 53 | 0.306335 | 9.952596 | 10 | 0 | |
| | 20 | 9.646303 | 43 | 9.693718 | 53 | 0.306282 | 9.952585 | 11 | 50 | |
| | 30 | 9.646346 | 43 | 9.693771 | 53 | 0.306229 | 9.952575 | 10 | 40 | |
| | 40 | 9.646388 | 42 | 9.693824 | 53 | 0.306176 | 9.952565 | 10 | 30 | |
| | 50 | 9.646431 | 43 | 9.693877 | 53 | 0.306123 | 9.952554 | 11 | 20 | |
| 18 | 0 | 9.646474 | 43 | 9.693930 | 53 | 0.306070 | 9.952544 | 10 | 10 | 42 |
| | 10 | 9.646516 | 42 | 9.693983 | 53 | 0.306017 | 9.952533 | 11 | 0 | |
| | 20 | 9.646559 | 43 | 9.694036 | 53 | 0.305964 | 9.952523 | 10 | 50 | |
| | 30 | 9.646601 | 42 | 9.694089 | 53 | 0.305911 | 9.952512 | 11 | 40 | |
| | 40 | 9.646644 | 43 | 9.694142 | 53 | 0.305858 | 9.952502 | 10 | 30 | |
| | 50 | 9.646686 | 42 | 9.694195 | 53 | 0.305805 | 9.952492 | 10 | 20 | |
| 19 | 0 | 9.646729 | 43 | 9.694248 | 53 | 0.305752 | 9.952481 | 11 | 10 | 41 |
| | 10 | 9.646772 | 43 | 9.694301 | 53 | 0.305699 | 9.952471 | 10 | 0 | |
| | 20 | 9.646814 | 42 | 9.694354 | 53 | 0.305646 | 9.952460 | 11 | 50 | |
| | 30 | 9.646857 | 43 | 9.694407 | 53 | 0.305593 | 9.952450 | 10 | 40 | |
| | 40 | 9.646899 | 42 | 9.694460 | 53 | 0.305540 | 9.952440 | 10 | 30 | |
| | 50 | 9.646942 | 43 | 9.694513 | 53 | 0.305487 | 9.952429 | 11 | 20 | |
| 20 | 0 | 9.646984 | 42 | 9.694566 | 53 | 0.305434 | 9.952419 | 10 | 10 | 40 |

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1 5.4
2 10.8
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| | ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 53 | 20 | 0 | 9.646984 | 43 | 9.694566 | 53 | 0.305434 | 9.952419 | 11 | 0 | 40 |
| 1 5.3 | 10 | 10 | 9.647027 | 42 | 9.694619 | 53 | 0.305381 | 9.952408 | 10 | 50 | |
| 2 10.6 | 20 | 20 | 9.647069 | 43 | 9.694672 | 52 | 0.305328 | 9.952398 | 11 | 40 | |
| 3 15.9 | 30 | 30 | 9.647112 | 42 | 9.694724 | 53 | 0.305276 | 9.952387 | 10 | 30 | |
| 4 21.2 | 40 | 40 | 9.647154 | 43 | 9.694777 | 53 | 0.305223 | 9.952377 | 10 | 20 | |
| 5 26.5 | 50 | 50 | 9.647197 | 43 | 9.694830 | 53 | 0.305170 | 9.952367 | 11 | 10 | |
| 6 31.8 | 21 | 0 | 9.647240 | 42 | 9.694883 | 53 | 0.305117 | 9.952356 | 10 | 0 | 39 |
| 7 37.1 | 10 | 10 | 9.647282 | 43 | 9.694936 | 53 | 0.305064 | 9.952346 | 11 | 50 | |
| 8 42.4 | 20 | 20 | 9.647325 | 42 | 9.694989 | 53 | 0.305011 | 9.952335 | 10 | 40 | |
| 9 47.7 | 30 | 30 | 9.647367 | 42 | 9.695042 | 53 | 0.304958 | 9.952325 | 11 | 30 | |
| | 40 | 40 | 9.647409 | 43 | 9.695095 | 53 | 0.304905 | 9.952314 | 10 | 20 | |
| | 50 | 50 | 9.647452 | 43 | 9.695148 | 53 | 0.304852 | 9.952304 | 10 | 10 | |
| 52 | 22 | 0 | 9.647494 | 43 | 9.695201 | 53 | 0.304799 | 9.952294 | 11 | 0 | 38 |
| 1 5.2 | 10 | 10 | 9.647537 | 42 | 9.695254 | 53 | 0.304746 | 9.952283 | 10 | 50 | |
| 2 10.4 | 20 | 20 | 9.647579 | 43 | 9.695307 | 53 | 0.304693 | 9.952273 | 11 | 40 | |
| 3 15.6 | 30 | 30 | 9.647622 | 42 | 9.695360 | 52 | 0.304640 | 9.952262 | 10 | 30 | |
| 4 20.8 | 40 | 40 | 9.647664 | 43 | 9.695412 | 53 | 0.304588 | 9.952252 | 11 | 20 | |
| 5 26.0 | 50 | 50 | 9.647707 | 43 | 9.695465 | 53 | 0.304535 | 9.952241 | 10 | 10 | |
| 6 31.2 | 23 | 0 | 9.647749 | 42 | 9.695518 | 53 | 0.304482 | 9.952231 | 10 | 0 | 37 |
| 7 36.4 | 10 | 10 | 9.647792 | 43 | 9.695571 | 53 | 0.304429 | 9.952221 | 11 | 50 | |
| 8 41.6 | 20 | 20 | 9.647834 | 42 | 9.695624 | 53 | 0.304376 | 9.952210 | 10 | 40 | |
| 9 46.8 | 30 | 30 | 9.647877 | 43 | 9.695677 | 53 | 0.304323 | 9.952200 | 11 | 30 | |
| * | 40 | 40 | 9.647919 | 42 | 9.695730 | 53 | 0.304270 | 9.952189 | 10 | 20 | |
| | 50 | 50 | 9.647961 | 43 | 9.695783 | 53 | 0.304217 | 9.952179 | 11 | 10 | |
| 43 | 24 | 0 | 9.648004 | 42 | 9.695836 | 52 | 0.304164 | 9.952168 | 10 | 0 | 36 |
| 1 4.3 | 10 | 10 | 9.648046 | 43 | 9.695888 | 53 | 0.304112 | 9.952158 | 11 | 50 | |
| 2 8.6 | 20 | 20 | 9.648089 | 42 | 9.695941 | 53 | 0.304059 | 9.952147 | 10 | 40 | |
| 3 12.9 | 30 | 30 | 9.648131 | 42 | 9.695994 | 53 | 0.304006 | 9.952137 | 11 | 30 | |
| 4 17.2 | 40 | 40 | 9.648173 | 43 | 9.696047 | 53 | 0.303953 | 9.952126 | 10 | 20 | |
| 5 21.5 | 50 | 50 | 9.648216 | 42 | 9.696100 | 53 | 0.303900 | 9.952116 | 10 | 10 | |
| 6 25.8 | 25 | 0 | 9.648258 | 43 | 9.696153 | 53 | 0.303847 | 9.952106 | 11 | 0 | 35 |
| 7 30.1 | 10 | 10 | 9.648301 | 42 | 9.696206 | 52 | 0.303794 | 9.952095 | 10 | 50 | |
| 8 34.4 | 20 | 20 | 9.648343 | 43 | 9.696258 | 53 | 0.303742 | 9.952085 | 11 | 40 | |
| 9 38.7 | 30 | 30 | 9.648385 | 42 | 9.696311 | 53 | 0.303689 | 9.952074 | 10 | 30 | |
| | 40 | 40 | 9.648428 | 43 | 9.696364 | 53 | 0.303636 | 9.952064 | 11 | 20 | |
| | 50 | 50 | 9.648470 | 42 | 9.696417 | 53 | 0.303583 | 9.952053 | 10 | 10 | |
| 42 | 26 | 0 | 9.648512 | 43 | 9.696470 | 52 | 0.303530 | 9.952043 | 11 | 0 | 34 |
| 1 4.2 | 10 | 10 | 9.648555 | 42 | 9.696522 | 53 | 0.303478 | 9.952032 | 10 | 50 | |
| 2 8.4 | 20 | 20 | 9.648597 | 43 | 9.696575 | 53 | 0.303425 | 9.952022 | 11 | 40 | |
| 3 12.6 | 30 | 30 | 9.648639 | 42 | 9.696628 | 53 | 0.303372 | 9.952011 | 10 | 30 | |
| 4 16.8 | 40 | 40 | 9.648682 | 43 | 9.696681 | 53 | 0.303319 | 9.952001 | 11 | 20 | |
| 5 21.0 | 50 | 50 | 9.648724 | 42 | 9.696734 | 53 | 0.303266 | 9.951990 | 10 | 10 | |
| 6 25.2 | 27 | 0 | 9.648766 | 43 | 9.696787 | 52 | 0.303213 | 9.951980 | 11 | 0 | 33 |
| 7 29.4 | 10 | 10 | 9.648809 | 42 | 9.696839 | 53 | 0.303161 | 9.951969 | 10 | 50 | |
| 8 33.6 | 20 | 20 | 9.648851 | 43 | 9.696892 | 53 | 0.303108 | 9.951959 | 11 | 40 | |
| 9 37.8 | 30 | 30 | 9.648893 | 42 | 9.696945 | 53 | 0.303055 | 9.951949 | 10 | 30 | |
| * | 40 | 40 | 9.648936 | 43 | 9.696998 | 53 | 0.303002 | 9.951938 | 11 | 20 | |
| | 50 | 50 | 9.648978 | 42 | 9.697050 | 52 | 0.302950 | 9.951928 | 10 | 10 | |
| 41 | 28 | 0 | 9.649020 | 43 | 9.697103 | 53 | 0.302897 | 9.951917 | 11 | 0 | 32 |
| 1 1.1 | 10 | 10 | 9.649063 | 42 | 9.697156 | 53 | 0.302844 | 9.951907 | 10 | 50 | |
| 2 2.2 | 20 | 20 | 9.649105 | 43 | 9.697209 | 53 | 0.302791 | 9.951896 | 11 | 40 | |
| 3 3.3 | 30 | 30 | 9.649147 | 42 | 9.697262 | 53 | 0.302738 | 9.951886 | 10 | 30 | |
| 4 4.4 | 40 | 40 | 9.649189 | 43 | 9.697314 | 52 | 0.302686 | 9.951875 | 11 | 20 | |
| 5 5.5 | 50 | 50 | 9.649232 | 42 | 9.697367 | 53 | 0.302633 | 9.951865 | 10 | 10 | |
| 6 6.6 | 29 | 0 | 9.649274 | 43 | 9.697420 | 53 | 0.302580 | 9.951854 | 11 | 0 | 31 |
| 7 7.7 | 10 | 10 | 9.649316 | 42 | 9.697473 | 52 | 0.302527 | 9.951844 | 10 | 50 | |
| 8 8.8 | 20 | 20 | 9.649358 | 43 | 9.697525 | 53 | 0.302475 | 9.951833 | 11 | 40 | |
| 9 9.9 | 30 | 30 | 9.649401 | 42 | 9.697578 | 53 | 0.302422 | 9.951823 | 10 | 30 | |
| | 40 | 40 | 9.649443 | 43 | 9.697631 | 53 | 0.302369 | 9.951812 | 11 | 20 | |
| | 50 | 50 | 9.649485 | 42 | 9.697684 | 53 | 0.302316 | 9.951802 | 10 | 10 | |
| | 30 | 0 | 9.649527 | 42 | 9.697736 | 52 | 0.302264 | 9.951791 | 11 | 0 | 30 |
| | ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 30 | 0 | 9.649527 | | 9.697736 | | 0.302264 | 9.951791 | 10 | 0 | 30 |
| | 10 | 9.649570 | 43 | 9.697789 | 53 | 0.302211 | 9.951781 | 11 | 50 | 53 |
| | 20 | 9.649612 | 42 | 9.697842 | 52 | 0.302158 | 9.951770 | 10 | 40 | 1 5.3 |
| | 30 | 9.649654 | 42 | 9.697894 | 52 | 0.302106 | 9.951760 | 10 | 30 | 2 10.6 |
| | 40 | 9.649696 | 42 | 9.697947 | 53 | 0.302053 | 9.951749 | 11 | 20 | 3 15.9 |
| | 50 | 9.649739 | 43 | 9.698000 | 53 | 0.302000 | 9.951739 | 11 | 10 | 4 21.2 |
| 31 | 0 | 9.649781 | 42 | 9.698053 | 53 | 0.301947 | 9.951728 | 11 | 0 | 5 26.5 |
| | 10 | 9.649823 | 42 | 9.698105 | 52 | 0.301895 | 9.951718 | 10 | 50 | 6 31.8 |
| | 20 | 9.649865 | 42 | 9.698158 | 53 | 0.301842 | 9.951707 | 11 | 40 | 7 37.1 |
| | 30 | 9.649907 | 42 | 9.698211 | 53 | 0.301789 | 9.951697 | 10 | 30 | 8 42.4 |
| | 40 | 9.649949 | 42 | 9.698263 | 52 | 0.301737 | 9.951686 | 11 | 20 | 9 47.7 |
| | 50 | 9.649992 | 43 | 9.698316 | 53 | 0.301684 | 9.951676 | 10 | 10 | |
| 32 | 0 | 9.650034 | 42 | 9.698369 | 53 | 0.301631 | 9.951665 | 11 | 0 | 28 |
| | 10 | 9.650076 | 42 | 9.698421 | 52 | 0.301579 | 9.951655 | 10 | 50 | 1 5.2 |
| | 20 | 9.650118 | 42 | 9.698474 | 53 | 0.301526 | 9.951644 | 11 | 40 | 2 10.4 |
| | 30 | 9.650160 | 42 | 9.698527 | 53 | 0.301473 | 9.951634 | 10 | 30 | 3 15.6 |
| | 40 | 9.650202 | 42 | 9.698579 | 52 | 0.301421 | 9.951623 | 11 | 20 | 4 20.8 |
| | 50 | 9.650245 | 43 | 9.698632 | 53 | 0.301368 | 9.951613 | 10 | 10 | 5 26.0 |
| 33 | 0 | 9.650287 | 42 | 9.698685 | 53 | 0.301315 | 9.951602 | 11 | 0 | 6 31.2 |
| | 10 | 9.650329 | 42 | 9.698737 | 52 | 0.301263 | 9.951591 | 10 | 50 | 7 36.4 |
| | 20 | 9.650371 | 42 | 9.698790 | 53 | 0.301210 | 9.951581 | 11 | 40 | 8 41.6 |
| | 30 | 9.650413 | 42 | 9.698843 | 53 | 0.301157 | 9.951570 | 10 | 30 | 9 46.8 |
| | 40 | 9.650455 | 42 | 9.698895 | 52 | 0.301105 | 9.951560 | 11 | 20 | |
| | 50 | 9.650497 | 42 | 9.698948 | 53 | 0.301052 | 9.951549 | 10 | 10 | * |
| 34 | 0 | 9.650539 | 42 | 9.699001 | 53 | 0.300999 | 9.951539 | 11 | 0 | 26 |
| | 10 | 9.650582 | 43 | 9.699053 | 52 | 0.300947 | 9.951528 | 10 | 50 | |
| | 20 | 9.650624 | 42 | 9.699106 | 53 | 0.300894 | 9.951518 | 11 | 40 | 1 4.2 |
| | 30 | 9.650666 | 42 | 9.699159 | 53 | 0.300841 | 9.951507 | 10 | 30 | 2 8.4 |
| | 40 | 9.650708 | 42 | 9.699211 | 52 | 0.300789 | 9.951497 | 11 | 20 | 3 12.6 |
| | 50 | 9.650750 | 42 | 9.699264 | 53 | 0.300736 | 9.951486 | 10 | 10 | 4 16.8 |
| 35 | 0 | 9.650792 | 42 | 9.699316 | 52 | 0.300684 | 9.951476 | 11 | 0 | 5 21.0 |
| | 10 | 9.650834 | 42 | 9.699369 | 53 | 0.300631 | 9.951465 | 10 | 50 | 6 25.2 |
| | 20 | 9.650876 | 42 | 9.699422 | 53 | 0.300578 | 9.951455 | 11 | 40 | 7 29.4 |
| | 30 | 9.650918 | 42 | 9.699474 | 52 | 0.300526 | 9.951444 | 10 | 30 | 8 33.6 |
| | 40 | 9.650960 | 42 | 9.699527 | 53 | 0.300473 | 9.951434 | 11 | 20 | 9 37.8 |
| | 50 | 9.651002 | 42 | 9.699579 | 52 | 0.300421 | 9.951423 | 10 | 10 | |
| 36 | 0 | 9.651044 | 42 | 9.699632 | 53 | 0.300368 | 9.951412 | 11 | 0 | 24 |
| | 10 | 9.651086 | 42 | 9.699685 | 53 | 0.300315 | 9.951402 | 10 | 50 | 1 4.1 |
| | 20 | 9.651128 | 42 | 9.699737 | 52 | 0.300263 | 9.951391 | 11 | 40 | 2 8.2 |
| | 30 | 9.651171 | 43 | 9.699790 | 53 | 0.300210 | 9.951381 | 10 | 30 | 3 12.3 |
| | 40 | 9.651213 | 42 | 9.699842 | 52 | 0.300158 | 9.951370 | 11 | 20 | 4 16.4 |
| | 50 | 9.651255 | 42 | 9.699895 | 53 | 0.300105 | 9.951360 | 10 | 10 | 5 20.5 |
| 37 | 0 | 9.651297 | 42 | 9.699947 | 52 | 0.300053 | 9.951349 | 11 | 0 | 6 24.6 |
| | 10 | 9.651339 | 42 | 9.700000 | 53 | 0.300000 | 9.951339 | 10 | 50 | 7 28.7 |
| | 20 | 9.651381 | 42 | 9.700053 | 53 | 0.299947 | 9.951328 | 11 | 40 | 8 32.8 |
| | 30 | 9.651423 | 42 | 9.700105 | 52 | 0.299895 | 9.951317 | 10 | 30 | 9 36.9 |
| | 40 | 9.651465 | 42 | 9.700158 | 53 | 0.299842 | 9.951307 | 11 | 20 | |
| | 50 | 9.651507 | 42 | 9.700210 | 52 | 0.299790 | 9.951296 | 10 | 10 | |
| 38 | 0 | 9.651549 | 42 | 9.700263 | 53 | 0.299737 | 9.951286 | 11 | 0 | 22 |
| | 10 | 9.651591 | 42 | 9.700315 | 52 | 0.299685 | 9.951275 | 10 | 50 | * |
| | 20 | 9.651633 | 42 | 9.700368 | 53 | 0.299632 | 9.951265 | 11 | 40 | |
| | 30 | 9.651675 | 42 | 9.700420 | 52 | 0.299580 | 9.951254 | 10 | 30 | 11 |
| | 40 | 9.651716 | 41 | 9.700473 | 53 | 0.299527 | 9.951244 | 11 | 20 | 1 1.1 |
| | 50 | 9.651758 | 42 | 9.700525 | 52 | 0.299475 | 9.951233 | 10 | 10 | 2 2.2 |
| 39 | 0 | 9.651800 | 42 | 9.700578 | 53 | 0.299422 | 9.951222 | 11 | 0 | 3 3.3 |
| | 10 | 9.651842 | 42 | 9.700630 | 52 | 0.299370 | 9.951212 | 10 | 50 | 4 4.4 |
| | 20 | 9.651884 | 42 | 9.700683 | 53 | 0.299317 | 9.951201 | 11 | 40 | 5 5.5 |
| | 30 | 9.651926 | 42 | 9.700736 | 53 | 0.299264 | 9.951191 | 10 | 30 | 6 6.6 |
| | 40 | 9.651968 | 42 | 9.700788 | 52 | 0.299212 | 9.951180 | 11 | 20 | 7 7.7 |
| | 50 | 9.652010 | 42 | 9.700841 | 53 | 0.299159 | 9.951170 | 10 | 10 | 8 8.8 |
| 40 | 0 | 9.652052 | 42 | 9.700893 | 52 | 0.299107 | 9.951159 | 11 | 0 | 9 9.9 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| | ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 53 | 40 | 0 | 9.652052 | 42 | 9.700893 | 53 | 0.299107 | 9.951159 | 11 | 0 | 20 |
| 1 5.3 | 10 | 10 | 9.652094 | 42 | 9.700946 | 52 | 0.299054 | 9.951148 | 10 | 50 | |
| 2 10.6 | 20 | 20 | 9.652136 | 42 | 9.700998 | 52 | 0.299002 | 9.951138 | 11 | 40 | |
| 3 15.9 | 30 | 30 | 9.652178 | 42 | 9.701051 | 53 | 0.298949 | 9.951127 | 10 | 30 | |
| 4 21.2 | 40 | 40 | 9.652220 | 42 | 9.701103 | 52 | 0.298897 | 9.951117 | 11 | 20 | |
| 5 26.5 | 50 | 50 | 9.652262 | 42 | 9.701155 | 53 | 0.298845 | 9.951106 | 10 | 10 | |
| 6 31.8 | 41 | 0 | 9.652304 | 41 | 9.701208 | 52 | 0.298792 | 9.951096 | 11 | 0 | 19 |
| 7 37.1 | 10 | 10 | 9.652345 | 42 | 9.701260 | 53 | 0.298740 | 9.951085 | 10 | 50 | |
| 8 42.4 | 20 | 20 | 9.652387 | 42 | 9.701313 | 52 | 0.298687 | 9.951074 | 11 | 40 | |
| 9 47.7 | 30 | 30 | 9.652429 | 42 | 9.701365 | 53 | 0.298635 | 9.951064 | 10 | 30 | |
| | 40 | 40 | 9.652471 | 42 | 9.701418 | 52 | 0.298582 | 9.951053 | 11 | 20 | |
| | 50 | 50 | 9.652513 | 42 | 9.701470 | 53 | 0.298530 | 9.951043 | 10 | 10 | |
| 52 | 42 | 0 | 9.652555 | 42 | 9.701523 | 52 | 0.298477 | 9.951032 | 11 | 0 | 18 |
| 1 5.2 | 10 | 10 | 9.652597 | 41 | 9.701575 | 53 | 0.298425 | 9.951021 | 10 | 50 | |
| 2 10.4 | 20 | 20 | 9.652638 | 42 | 9.701628 | 52 | 0.298372 | 9.951011 | 11 | 40 | |
| 3 15.6 | 30 | 30 | 9.652680 | 42 | 9.701680 | 53 | 0.298320 | 9.951000 | 10 | 30 | |
| 4 20.8 | 40 | 40 | 9.652722 | 42 | 9.701733 | 52 | 0.298267 | 9.950990 | 11 | 20 | |
| 5 26.0 | 50 | 50 | 9.652764 | 42 | 9.701785 | 53 | 0.298215 | 9.950979 | 10 | 10 | |
| 6 31.2 | 43 | 0 | 9.652806 | 42 | 9.701837 | 52 | 0.298163 | 9.950968 | 11 | 0 | 17 |
| 7 36.4 | 10 | 10 | 9.652848 | 42 | 9.701890 | 53 | 0.298110 | 9.950958 | 10 | 50 | |
| 8 41.6 | 20 | 20 | 9.652890 | 42 | 9.701942 | 52 | 0.298058 | 9.950947 | 11 | 40 | |
| 9 46.8 | 30 | 30 | 9.652931 | 41 | 9.701995 | 53 | 0.298005 | 9.950937 | 10 | 30 | |
| | 40 | 40 | 9.652973 | 42 | 9.702047 | 52 | 0.297953 | 9.950926 | 11 | 20 | |
| * | 50 | 50 | 9.653015 | 42 | 9.702100 | 53 | 0.297900 | 9.950915 | 10 | 10 | |
| | 44 | 0 | 9.653057 | 42 | 9.702152 | 52 | 0.297848 | 9.950905 | 11 | 0 | 16 |
| 42 | 10 | 10 | 9.653099 | 41 | 9.702204 | 53 | 0.297796 | 9.950894 | 10 | 50 | |
| 1 4.2 | 20 | 20 | 9.653140 | 42 | 9.702257 | 52 | 0.297743 | 9.950884 | 11 | 40 | |
| 2 8.4 | 30 | 30 | 9.653182 | 42 | 9.702309 | 53 | 0.297691 | 9.950873 | 10 | 30 | |
| 3 12.6 | 40 | 40 | 9.653224 | 42 | 9.702362 | 52 | 0.297638 | 9.950862 | 11 | 20 | |
| 4 16.8 | 50 | 50 | 9.653266 | 42 | 9.702414 | 53 | 0.297586 | 9.950852 | 10 | 10 | |
| 5 21.0 | 45 | 0 | 9.653308 | 41 | 9.702466 | 52 | 0.297534 | 9.950841 | 11 | 0 | 15 |
| 6 25.2 | 10 | 10 | 9.653349 | 42 | 9.702519 | 53 | 0.297481 | 9.950831 | 10 | 50 | |
| 7 29.4 | 20 | 20 | 9.653391 | 42 | 9.702571 | 52 | 0.297429 | 9.950820 | 11 | 40 | |
| 8 33.6 | 30 | 30 | 9.653433 | 42 | 9.702623 | 53 | 0.297377 | 9.950809 | 10 | 30 | |
| 9 37.8 | 40 | 40 | 9.653475 | 41 | 9.702676 | 52 | 0.297324 | 9.950799 | 11 | 20 | |
| | 50 | 50 | 9.653516 | 42 | 9.702728 | 53 | 0.297272 | 9.950788 | 10 | 10 | |
| 41 | 46 | 0 | 9.653558 | 42 | 9.702781 | 52 | 0.297219 | 9.950778 | 11 | 0 | 14 |
| 1 4.1 | 10 | 10 | 9.653600 | 42 | 9.702833 | 53 | 0.297167 | 9.950767 | 10 | 50 | |
| 2 8.2 | 20 | 20 | 9.653642 | 42 | 9.702885 | 52 | 0.297115 | 9.950756 | 11 | 40 | |
| 3 12.3 | 30 | 30 | 9.653683 | 41 | 9.702938 | 53 | 0.297062 | 9.950746 | 10 | 30 | |
| 4 16.4 | 40 | 40 | 9.653725 | 42 | 9.702990 | 52 | 0.297010 | 9.950735 | 11 | 20 | |
| 5 20.5 | 50 | 50 | 9.653767 | 41 | 9.703042 | 53 | 0.296958 | 9.950724 | 10 | 10 | |
| 6 24.6 | 47 | 0 | 9.653808 | 42 | 9.703095 | 52 | 0.296905 | 9.950713 | 11 | 0 | 13 |
| 7 28.7 | 10 | 10 | 9.653850 | 42 | 9.703147 | 53 | 0.296853 | 9.950703 | 10 | 50 | |
| 8 32.8 | 20 | 20 | 9.653892 | 42 | 9.703199 | 52 | 0.296801 | 9.950693 | 11 | 40 | |
| 9 36.9 | 30 | 30 | 9.653934 | 42 | 9.703252 | 53 | 0.296748 | 9.950682 | 10 | 30 | |
| | 40 | 40 | 9.653975 | 41 | 9.703304 | 52 | 0.296696 | 9.950671 | 11 | 20 | |
| | 50 | 50 | 9.654017 | 42 | 9.703356 | 53 | 0.296644 | 9.950661 | 10 | 10 | |
| * | 48 | 0 | 9.654059 | 41 | 9.703409 | 52 | 0.296592 | 9.950650 | 11 | 0 | 12 |
| | 10 | 10 | 9.654100 | 42 | 9.703461 | 53 | 0.296539 | 9.950639 | 10 | 50 | |
| 11 | 20 | 20 | 9.654142 | 42 | 9.703513 | 52 | 0.296487 | 9.950629 | 11 | 40 | |
| 1 11.1 | 30 | 30 | 9.654184 | 41 | 9.703566 | 53 | 0.296434 | 9.950618 | 10 | 30 | |
| 2 2.2 | 40 | 40 | 9.654225 | 42 | 9.703618 | 52 | 0.296382 | 9.950607 | 11 | 20 | |
| 3 3.3 | 50 | 50 | 9.654267 | 42 | 9.703670 | 53 | 0.296330 | 9.950597 | 10 | 10 | |
| 4 4.4 | 49 | 0 | 9.654309 | 41 | 9.703722 | 52 | 0.296278 | 9.950586 | 11 | 0 | 11 |
| 5 5.5 | 10 | 10 | 9.654350 | 42 | 9.703775 | 53 | 0.296225 | 9.950576 | 10 | 50 | |
| 6 6.6 | 20 | 20 | 9.654392 | 42 | 9.703827 | 52 | 0.296173 | 9.950565 | 11 | 40 | |
| 7 7.7 | 30 | 30 | 9.654434 | 41 | 9.703879 | 53 | 0.296121 | 9.950554 | 10 | 30 | |
| 8 8.8 | 40 | 40 | 9.654475 | 42 | 9.703932 | 52 | 0.296068 | 9.950544 | 11 | 20 | |
| 9 9.9 | 50 | 50 | 9.654517 | 41 | 9.703984 | 53 | 0.296016 | 9.950533 | 10 | 10 | |
| | 50 | 0 | 9.654558 | 41 | 9.704036 | 52 | 0.295964 | 9.950522 | 11 | 0 | 10 |
| | ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.654558 | 42 | 9.704036 | 52 | 0.295964 | 9.950522 | 10 | 0 | 10 |
| | 10 | 9.654600 | 42 | 9.704088 | 52 | 0.295912 | 9.950512 | 10 | 50 | 53 |
| | 20 | 9.654642 | 42 | 9.704141 | 53 | 0.295859 | 9.950501 | 11 | 40 | 1 5.3 |
| | 30 | 9.654683 | 41 | 9.704193 | 52 | 0.295807 | 9.950490 | 11 | 30 | 2 10.6 |
| | 40 | 9.654725 | 42 | 9.704245 | 52 | 0.295755 | 9.950480 | 10 | 20 | 3 15.9 |
| | 50 | 9.654766 | 41 | 9.704297 | 52 | 0.295703 | 9.950469 | 11 | 10 | 4 21.2 |
| 51 | 0 | 9.654808 | 42 | 9.704350 | 53 | 0.295650 | 9.950458 | 11 | 10 | 5 26.5 |
| | 10 | 9.654850 | 42 | 9.704402 | 52 | 0.295598 | 9.950448 | 10 | 0 | 6 31.8 |
| | 20 | 9.654891 | 41 | 9.704454 | 52 | 0.295546 | 9.950437 | 11 | 50 | 7 37.1 |
| | 30 | 9.654933 | 42 | 9.704506 | 52 | 0.295494 | 9.950426 | 11 | 40 | 8 42.4 |
| | 40 | 9.654974 | 41 | 9.704559 | 53 | 0.295441 | 9.950416 | 10 | 30 | 9 47.7 |
| | 50 | 9.655016 | 42 | 9.704611 | 52 | 0.295389 | 9.950405 | 11 | 20 | |
| 52 | 0 | 9.655058 | 42 | 9.704663 | 52 | 0.295337 | 9.950394 | 11 | 10 | |
| | 10 | 9.655099 | 41 | 9.704715 | 52 | 0.295285 | 9.950384 | 10 | 0 | 52 |
| | 20 | 9.655141 | 42 | 9.704768 | 53 | 0.295232 | 9.950373 | 11 | 50 | 1 5.2 |
| | 30 | 9.655182 | 41 | 9.704820 | 52 | 0.295180 | 9.950362 | 11 | 40 | 2 10.4 |
| | 40 | 9.655224 | 42 | 9.704872 | 52 | 0.295128 | 9.950352 | 11 | 30 | 3 15.6 |
| | 50 | 9.655265 | 41 | 9.704924 | 52 | 0.295076 | 9.950341 | 10 | 20 | 4 20.8 |
| 53 | 0 | 9.655307 | 42 | 9.704976 | 52 | 0.295024 | 9.950330 | 11 | 10 | 5 26.0 |
| | 10 | 9.655348 | 41 | 9.705029 | 53 | 0.294971 | 9.950320 | 11 | 0 | 6 31.2 |
| | 20 | 9.655390 | 42 | 9.705081 | 52 | 0.294919 | 9.950309 | 10 | 50 | 7 36.4 |
| | 30 | 9.655431 | 41 | 9.705133 | 52 | 0.294867 | 9.950298 | 11 | 40 | 8 41.6 |
| | 40 | 9.655473 | 42 | 9.705185 | 52 | 0.294815 | 9.950288 | 11 | 30 | 9 46.8 |
| | 50 | 9.655514 | 41 | 9.705237 | 52 | 0.294763 | 9.950277 | 11 | 20 | |
| 54 | 0 | 9.655556 | 42 | 9.705290 | 53 | 0.294710 | 9.950266 | 11 | 10 | |
| | 10 | 9.655597 | 41 | 9.705342 | 52 | 0.294658 | 9.950256 | 10 | 0 | * |
| | 20 | 9.655639 | 42 | 9.705394 | 52 | 0.294606 | 9.950245 | 11 | 50 | |
| | 30 | 9.655680 | 41 | 9.705446 | 52 | 0.294554 | 9.950234 | 11 | 40 | 42 |
| | 40 | 9.655722 | 42 | 9.705498 | 52 | 0.294502 | 9.950224 | 10 | 30 | 1 4.2 |
| | 50 | 9.655763 | 41 | 9.705551 | 53 | 0.294449 | 9.950213 | 11 | 20 | 2 8.4 |
| 55 | 0 | 9.655805 | 42 | 9.705603 | 52 | 0.294397 | 9.950202 | 11 | 10 | 3 12.6 |
| | 10 | 9.655846 | 41 | 9.705655 | 52 | 0.294345 | 9.950191 | 11 | 0 | 4 16.8 |
| | 20 | 9.655888 | 42 | 9.705707 | 52 | 0.294293 | 9.950181 | 10 | 50 | 5 21.0 |
| | 30 | 9.655929 | 41 | 9.705759 | 52 | 0.294241 | 9.950170 | 11 | 40 | 6 25.2 |
| | 40 | 9.655971 | 42 | 9.705811 | 52 | 0.294189 | 9.950159 | 11 | 30 | 7 29.4 |
| | 50 | 9.656012 | 41 | 9.705863 | 52 | 0.294137 | 9.950149 | 10 | 20 | 8 33.6 |
| 56 | 0 | 9.656055 | 42 | 9.705916 | 53 | 0.294084 | 9.950138 | 11 | 10 | 9 37.8 |
| | 10 | 9.656095 | 41 | 9.705968 | 52 | 0.294032 | 9.950127 | 11 | 0 | |
| | 20 | 9.656136 | 42 | 9.706020 | 52 | 0.293980 | 9.950117 | 10 | 50 | 41 |
| | 30 | 9.656178 | 41 | 9.706072 | 52 | 0.293928 | 9.950106 | 11 | 40 | 1 4.1 |
| | 40 | 9.656219 | 42 | 9.706124 | 52 | 0.293876 | 9.950095 | 11 | 30 | 2 8.2 |
| | 50 | 9.656261 | 41 | 9.706176 | 52 | 0.293824 | 9.950084 | 10 | 20 | 3 12.3 |
| 57 | 0 | 9.656302 | 42 | 9.706228 | 52 | 0.293772 | 9.950074 | 11 | 10 | 4 16.4 |
| | 10 | 9.656344 | 41 | 9.706280 | 52 | 0.293720 | 9.950063 | 11 | 0 | 5 20.5 |
| | 20 | 9.656385 | 42 | 9.706333 | 53 | 0.293667 | 9.950052 | 11 | 50 | 6 24.6 |
| | 30 | 9.656426 | 41 | 9.706385 | 52 | 0.293615 | 9.950042 | 10 | 40 | 7 28.7 |
| | 40 | 9.656468 | 42 | 9.706437 | 52 | 0.293563 | 9.950031 | 11 | 30 | 8 32.8 |
| | 50 | 9.656509 | 41 | 9.706489 | 52 | 0.293511 | 9.950020 | 11 | 20 | 9 36.9 |
| 58 | 0 | 9.656551 | 42 | 9.706541 | 52 | 0.293459 | 9.950010 | 10 | 10 | |
| | 10 | 9.656592 | 41 | 9.706593 | 52 | 0.293407 | 9.950000 | 11 | 0 | * |
| | 20 | 9.656633 | 42 | 9.706645 | 52 | 0.293355 | 9.949988 | 11 | 50 | |
| | 30 | 9.656675 | 41 | 9.706697 | 52 | 0.293303 | 9.949977 | 11 | 40 | 11 |
| | 40 | 9.656716 | 42 | 9.706749 | 52 | 0.293251 | 9.949967 | 10 | 30 | 1 11.1 |
| | 50 | 9.656757 | 41 | 9.706801 | 52 | 0.293199 | 9.949956 | 11 | 20 | 2 2.2 |
| 59 | 0 | 9.656799 | 42 | 9.706854 | 53 | 0.293146 | 9.949945 | 11 | 10 | 3 3.3 |
| | 10 | 9.656840 | 41 | 9.706906 | 52 | 0.293094 | 9.949935 | 10 | 0 | 4 4.4 |
| | 20 | 9.656881 | 42 | 9.706958 | 52 | 0.293042 | 9.949924 | 11 | 50 | 5 5.5 |
| | 30 | 9.656923 | 41 | 9.707010 | 52 | 0.292990 | 9.949913 | 11 | 40 | 6 6.6 |
| | 40 | 9.656964 | 42 | 9.707062 | 52 | 0.292938 | 9.949902 | 11 | 30 | 7 7.7 |
| | 50 | 9.657005 | 41 | 9.707114 | 52 | 0.292886 | 9.949892 | 10 | 20 | 8 8.8 |
| 60 | 0 | 9.657047 | 42 | 9.707166 | 52 | 0.292834 | 9.949881 | 10 | 10 | 9 9.9 |
| | | | | | | | | | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.657047 | 41 | 9.707166 | 52 | 0.292834 | 9.949881 | 11 | 0 | 60 |
| 1 | 10 | 9.657088 | 41 | 9.707218 | 52 | 0.292782 | 9.949870 | 11 | 50 | |
| 2 | 20 | 9.657129 | 41 | 9.707270 | 52 | 0.292730 | 9.949859 | 11 | 40 | |
| 3 | 30 | 9.657171 | 42 | 9.707322 | 52 | 0.292678 | 9.949849 | 11 | 30 | |
| 4 | 40 | 9.657212 | 41 | 9.707374 | 52 | 0.292626 | 9.949838 | 11 | 20 | |
| 5 | 50 | 9.657253 | 42 | 9.707426 | 52 | 0.292574 | 9.949827 | 11 | 10 | |
| 6 | 0 | 9.657295 | 42 | 9.707478 | 52 | 0.292522 | 9.949816 | 11 | 0 | 59 |
| 7 | 10 | 9.657336 | 41 | 9.707530 | 52 | 0.292470 | 9.949806 | 11 | 50 | |
| 8 | 20 | 9.657377 | 41 | 9.707582 | 52 | 0.292418 | 9.949795 | 11 | 40 | |
| 9 | 30 | 9.657418 | 41 | 9.707634 | 52 | 0.292366 | 9.949784 | 11 | 30 | |
| 10 | 40 | 9.657460 | 42 | 9.707686 | 52 | 0.292314 | 9.949774 | 11 | 20 | |
| 11 | 50 | 9.657501 | 41 | 9.707738 | 52 | 0.292262 | 9.949763 | 11 | 10 | |
| 12 | 0 | 9.657542 | 42 | 9.707790 | 52 | 0.292210 | 9.949752 | 11 | 0 | 58 |
| 13 | 10 | 9.657584 | 41 | 9.707842 | 52 | 0.292158 | 9.949741 | 11 | 50 | |
| 14 | 20 | 9.657625 | 41 | 9.707894 | 52 | 0.292106 | 9.949731 | 11 | 40 | |
| 15 | 30 | 9.657666 | 41 | 9.707946 | 52 | 0.292054 | 9.949720 | 11 | 30 | |
| 16 | 40 | 9.657707 | 41 | 9.707998 | 52 | 0.292002 | 9.949709 | 11 | 20 | |
| 17 | 50 | 9.657749 | 42 | 9.708050 | 52 | 0.291950 | 9.949698 | 11 | 10 | |
| 18 | 0 | 9.657790 | 41 | 9.708102 | 52 | 0.291898 | 9.949688 | 11 | 0 | 57 |
| 19 | 10 | 9.657831 | 41 | 9.708154 | 52 | 0.291846 | 9.949677 | 11 | 50 | |
| 20 | 20 | 9.657872 | 41 | 9.708206 | 52 | 0.291794 | 9.949666 | 11 | 40 | |
| 21 | 30 | 9.657913 | 41 | 9.708258 | 52 | 0.291742 | 9.949655 | 11 | 30 | |
| 22 | 40 | 9.657955 | 42 | 9.708310 | 52 | 0.291690 | 9.949645 | 11 | 20 | |
| 23 | 50 | 9.657996 | 41 | 9.708362 | 52 | 0.291638 | 9.949634 | 11 | 10 | |
| 24 | 0 | 9.658037 | 41 | 9.708414 | 52 | 0.291586 | 9.949623 | 11 | 0 | 56 |
| 25 | 10 | 9.658078 | 41 | 9.708466 | 52 | 0.291534 | 9.949612 | 11 | 50 | |
| 26 | 20 | 9.658119 | 41 | 9.708518 | 52 | 0.291482 | 9.949602 | 11 | 40 | |
| 27 | 30 | 9.658161 | 42 | 9.708570 | 52 | 0.291430 | 9.949591 | 11 | 30 | |
| 28 | 40 | 9.658202 | 41 | 9.708622 | 52 | 0.291378 | 9.949580 | 11 | 20 | |
| 29 | 50 | 9.658243 | 41 | 9.708674 | 52 | 0.291326 | 9.949569 | 11 | 10 | |
| 30 | 0 | 9.658284 | 41 | 9.708726 | 52 | 0.291274 | 9.949558 | 11 | 0 | 55 |
| 31 | 10 | 9.658325 | 42 | 9.708778 | 52 | 0.291222 | 9.949548 | 11 | 50 | |
| 32 | 20 | 9.658367 | 41 | 9.708830 | 52 | 0.291170 | 9.949537 | 11 | 40 | |
| 33 | 30 | 9.658408 | 41 | 9.708882 | 52 | 0.291118 | 9.949526 | 11 | 30 | |
| 34 | 40 | 9.658449 | 41 | 9.708934 | 51 | 0.291066 | 9.949515 | 11 | 20 | |
| 35 | 50 | 9.658490 | 41 | 9.708985 | 52 | 0.291015 | 9.949505 | 11 | 10 | |
| 36 | 0 | 9.658531 | 41 | 9.709037 | 52 | 0.290963 | 9.949494 | 11 | 0 | 54 |
| 37 | 10 | 9.658572 | 41 | 9.709089 | 52 | 0.290911 | 9.949483 | 11 | 50 | |
| 38 | 20 | 9.658613 | 41 | 9.709141 | 52 | 0.290859 | 9.949472 | 11 | 40 | |
| 39 | 30 | 9.658655 | 42 | 9.709193 | 52 | 0.290807 | 9.949462 | 11 | 30 | |
| 40 | 40 | 9.658696 | 41 | 9.709245 | 52 | 0.290755 | 9.949451 | 11 | 20 | |
| 41 | 50 | 9.658737 | 41 | 9.709297 | 52 | 0.290703 | 9.949440 | 11 | 10 | |
| 42 | 0 | 9.658778 | 41 | 9.709349 | 52 | 0.290651 | 9.949429 | 11 | 0 | 53 |
| 43 | 10 | 9.658819 | 41 | 9.709401 | 52 | 0.290599 | 9.949418 | 11 | 50 | |
| 44 | 20 | 9.658860 | 41 | 9.709453 | 52 | 0.290547 | 9.949408 | 11 | 40 | |
| 45 | 30 | 9.658901 | 41 | 9.709504 | 51 | 0.290496 | 9.949397 | 11 | 30 | |
| 46 | 40 | 9.658942 | 41 | 9.709556 | 52 | 0.290444 | 9.949386 | 11 | 20 | |
| 47 | 50 | 9.658983 | 41 | 9.709608 | 52 | 0.290392 | 9.949375 | 11 | 10 | |
| 48 | 0 | 9.659025 | 42 | 9.709660 | 52 | 0.290340 | 9.949364 | 11 | 0 | 52 |
| 49 | 10 | 9.659066 | 41 | 9.709712 | 52 | 0.290288 | 9.949354 | 11 | 50 | |
| 50 | 20 | 9.659107 | 41 | 9.709764 | 52 | 0.290236 | 9.949343 | 11 | 40 | |
| 51 | 30 | 9.659148 | 41 | 9.709816 | 52 | 0.290184 | 9.949332 | 11 | 30 | |
| 52 | 40 | 9.659189 | 41 | 9.709868 | 52 | 0.290132 | 9.949321 | 11 | 20 | |
| 53 | 50 | 9.659230 | 41 | 9.709919 | 51 | 0.290081 | 9.949310 | 11 | 10 | |
| 54 | 0 | 9.659271 | 41 | 9.709971 | 52 | 0.290029 | 9.949300 | 11 | 0 | 51 |
| 55 | 10 | 9.659312 | 41 | 9.710023 | 52 | 0.289977 | 9.949289 | 11 | 50 | |
| 56 | 20 | 9.659353 | 41 | 9.710075 | 52 | 0.289925 | 9.949278 | 11 | 40 | |
| 57 | 30 | 9.659394 | 41 | 9.710127 | 52 | 0.289873 | 9.949267 | 11 | 30 | |
| 58 | 40 | 9.659435 | 41 | 9.710179 | 52 | 0.289821 | 9.949256 | 11 | 20 | |
| 59 | 50 | 9.659476 | 41 | 9.710231 | 52 | 0.289769 | 9.949246 | 11 | 10 | |
| 60 | 0 | 9.659517 | 41 | 9.710282 | 51 | 0.289718 | 9.949235 | 11 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 10 | 0 | 9.659517 | 41 | 9.710282 | 52 | 0.289718 | 9.949235 | 11 | 0 | 50 |
| 10 | 10 | 9.659558 | 41 | 9.710334 | 52 | 0.289666 | 9.949224 | 11 | 50 | 52 |
| 20 | 0 | 9.659599 | 41 | 9.710386 | 52 | 0.289614 | 9.949213 | 11 | 40 | 1 5.2 |
| 30 | 0 | 9.659640 | 41 | 9.710438 | 52 | 0.289562 | 9.949202 | 11 | 30 | 2 10.4 |
| 40 | 0 | 9.659681 | 41 | 9.710490 | 52 | 0.289510 | 9.949192 | 11 | 20 | 3 15.6 |
| 50 | 0 | 9.659722 | 41 | 9.710542 | 51 | 0.289458 | 9.949181 | 11 | 10 | 4 20.8 |
| 11 | 0 | 9.659763 | 41 | 9.710593 | 52 | 0.289406 | 9.949170 | 11 | 0 | 5 26.0 |
| 10 | 10 | 9.659804 | 41 | 9.710645 | 52 | 0.289354 | 9.949159 | 11 | 50 | 6 31.2 |
| 20 | 0 | 9.659845 | 41 | 9.710697 | 52 | 0.289303 | 9.949148 | 11 | 40 | 7 36.4 |
| 30 | 0 | 9.659886 | 41 | 9.710749 | 52 | 0.289251 | 9.949137 | 11 | 30 | 8 41.6 |
| 40 | 0 | 9.659927 | 41 | 9.710801 | 51 | 0.289199 | 9.949127 | 11 | 20 | 9 46.8 |
| 50 | 0 | 9.659968 | 41 | 9.710852 | 52 | 0.289148 | 9.949116 | 11 | 10 | |
| 12 | 0 | 9.660009 | 41 | 9.710904 | 52 | 0.289096 | 9.949105 | 11 | 0 | 48 |
| 10 | 10 | 9.660050 | 41 | 9.710956 | 52 | 0.289044 | 9.949094 | 11 | 50 | 1 51 |
| 20 | 0 | 9.660091 | 41 | 9.711008 | 52 | 0.288992 | 9.949083 | 11 | 40 | 2 5.1 |
| 30 | 0 | 9.660132 | 41 | 9.711059 | 51 | 0.288941 | 9.949073 | 11 | 30 | 3 10.2 |
| 40 | 0 | 9.660173 | 41 | 9.711111 | 52 | 0.288889 | 9.949062 | 11 | 20 | 4 15.3 |
| 50 | 0 | 9.660214 | 41 | 9.711163 | 52 | 0.288837 | 9.949051 | 11 | 10 | 5 20.4 |
| 13 | 0 | 9.660255 | 41 | 9.711215 | 52 | 0.288785 | 9.949040 | 11 | 0 | 6 25.5 |
| 10 | 10 | 9.660296 | 41 | 9.711267 | 51 | 0.288733 | 9.949029 | 11 | 50 | 7 30.6 |
| 20 | 0 | 9.660337 | 41 | 9.711318 | 52 | 0.288682 | 9.949019 | 11 | 40 | 8 35.7 |
| 30 | 0 | 9.660378 | 41 | 9.711370 | 52 | 0.288630 | 9.949008 | 11 | 30 | 9 40.8 |
| 40 | 0 | 9.660419 | 41 | 9.711422 | 52 | 0.288578 | 9.948997 | 11 | 20 | |
| 50 | 0 | 9.660460 | 41 | 9.711474 | 51 | 0.288526 | 9.948986 | 11 | 10 | |
| 14 | 0 | 9.660501 | 40 | 9.711525 | 52 | 0.288474 | 9.948975 | 11 | 0 | 46 |
| 10 | 10 | 9.660541 | 41 | 9.711577 | 52 | 0.288422 | 9.948964 | 11 | 50 | * |
| 20 | 0 | 9.660582 | 41 | 9.711629 | 52 | 0.288371 | 9.948954 | 11 | 40 | 41 |
| 30 | 0 | 9.660623 | 41 | 9.711681 | 51 | 0.288319 | 9.948943 | 11 | 30 | 1 4.1 |
| 40 | 0 | 9.660664 | 41 | 9.711732 | 52 | 0.288268 | 9.948932 | 11 | 20 | 2 8.2 |
| 50 | 0 | 9.660705 | 41 | 9.711784 | 52 | 0.288216 | 9.948921 | 11 | 10 | 3 12.3 |
| 15 | 0 | 9.660746 | 41 | 9.711836 | 51 | 0.288164 | 9.948910 | 11 | 0 | 4 16.4 |
| 10 | 10 | 9.660787 | 41 | 9.711887 | 52 | 0.288113 | 9.948899 | 11 | 50 | 5 20.5 |
| 20 | 0 | 9.660828 | 41 | 9.711939 | 52 | 0.288061 | 9.948888 | 11 | 40 | 6 24.6 |
| 30 | 0 | 9.660869 | 41 | 9.711991 | 52 | 0.288009 | 9.948878 | 11 | 30 | 7 28.7 |
| 40 | 0 | 9.660909 | 40 | 9.712043 | 52 | 0.287957 | 9.948867 | 11 | 20 | 8 32.8 |
| 50 | 0 | 9.660950 | 41 | 9.712094 | 51 | 0.287906 | 9.948856 | 11 | 10 | 9 36.9 |
| 16 | 0 | 9.660991 | 41 | 9.712146 | 52 | 0.287854 | 9.948845 | 11 | 0 | 44 |
| 10 | 10 | 9.661032 | 41 | 9.712198 | 52 | 0.287802 | 9.948834 | 11 | 50 | 40* |
| 20 | 0 | 9.661073 | 41 | 9.712249 | 51 | 0.287751 | 9.948823 | 11 | 40 | 1 4.0 |
| 30 | 0 | 9.661114 | 41 | 9.712301 | 52 | 0.287699 | 9.948812 | 11 | 30 | 2 8.0 |
| 40 | 0 | 9.661154 | 40 | 9.712353 | 52 | 0.287647 | 9.948802 | 11 | 20 | 3 12.0 |
| 50 | 0 | 9.661195 | 41 | 9.712405 | 51 | 0.287595 | 9.948791 | 11 | 10 | 4 16.0 |
| 17 | 0 | 9.661236 | 41 | 9.712456 | 52 | 0.287544 | 9.948780 | 11 | 0 | 5 20.0 |
| 10 | 10 | 9.661277 | 41 | 9.712508 | 52 | 0.287492 | 9.948769 | 11 | 50 | 6 24.0 |
| 20 | 0 | 9.661318 | 41 | 9.712560 | 52 | 0.287440 | 9.948758 | 11 | 40 | 7 28.0 |
| 30 | 0 | 9.661359 | 41 | 9.712611 | 51 | 0.287389 | 9.948747 | 11 | 30 | 8 32.0 |
| 40 | 0 | 9.661399 | 40 | 9.712663 | 52 | 0.287337 | 9.948736 | 11 | 20 | 9 36.0 |
| 50 | 0 | 9.661440 | 41 | 9.712715 | 52 | 0.287285 | 9.948726 | 11 | 10 | |
| 18 | 0 | 9.661481 | 41 | 9.712766 | 51 | 0.287234 | 9.948715 | 11 | 0 | 42 |
| 10 | 10 | 9.661522 | 41 | 9.712818 | 52 | 0.287182 | 9.948704 | 11 | 50 | * |
| 20 | 0 | 9.661563 | 41 | 9.712870 | 52 | 0.287130 | 9.948693 | 11 | 40 | 1 4.0 |
| 30 | 0 | 9.661603 | 40 | 9.712921 | 51 | 0.287079 | 9.948682 | 11 | 30 | 2 8.0 |
| 40 | 0 | 9.661644 | 41 | 9.712973 | 52 | 0.287027 | 9.948671 | 11 | 20 | 3 12.0 |
| 50 | 0 | 9.661685 | 41 | 9.713025 | 52 | 0.286975 | 9.948660 | 11 | 10 | 4 16.0 |
| 19 | 0 | 9.661726 | 41 | 9.713076 | 51 | 0.286924 | 9.948650 | 11 | 0 | 5 20.0 |
| 10 | 10 | 9.661766 | 40 | 9.713128 | 52 | 0.286872 | 9.948639 | 11 | 50 | 6 24.0 |
| 20 | 0 | 9.661807 | 41 | 9.713179 | 51 | 0.286821 | 9.948628 | 11 | 40 | 7 28.0 |
| 30 | 0 | 9.661848 | 41 | 9.713231 | 52 | 0.286769 | 9.948617 | 11 | 30 | 8 32.0 |
| 40 | 0 | 9.661889 | 41 | 9.713283 | 52 | 0.286717 | 9.948606 | 11 | 20 | 9 36.0 |
| 50 | 0 | 9.661929 | 40 | 9.713334 | 51 | 0.286666 | 9.948595 | 11 | 10 | |
| 20 | 0 | 9.661970 | 41 | 9.713386 | 52 | 0.286614 | 9.948584 | 11 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|-------|----------|----------|----|----|----|
| | 20 | 0 9.661970 | 41 | 9.713386 | 52 | 0.286614 | 9.948584 | 11 | 0 | 40 |
| 1 5.2 | 10 | 9.662011 | 41 | 9.713438 | 51 | 0.286562 | 9.948573 | 11 | 50 | |
| 2 10.4 | 20 | 9.662052 | 40 | 9.713489 | 52 | 0.286511 | 9.948562 | 10 | 40 | |
| 3 15.6 | 30 | 9.662092 | 41 | 9.713541 | 51 | 0.286459 | 9.948552 | 11 | 30 | |
| 4 20.8 | 40 | 9.662133 | 41 | 9.713592 | 51 | 0.286408 | 9.948541 | 11 | 20 | |
| 5 26.0 | 50 | 9.662174 | 40 | 9.713644 | 52 | 0.286356 | 9.948530 | 11 | 10 | |
| 6 31.2 | 0 | 9.662214 | 41 | 9.713696 | 51 | 0.286304 | 9.948519 | 11 | 0 | 39 |
| 7 36.4 | 10 | 9.662255 | 41 | 9.713747 | 52 | 0.286253 | 9.948508 | 11 | 50 | |
| 8 41.6 | 20 | 9.662296 | 41 | 9.713799 | 51 | 0.286201 | 9.948497 | 11 | 40 | |
| 9 46.8 | 30 | 9.662337 | 40 | 9.713850 | 52 | 0.286150 | 9.948486 | 11 | 30 | |
| | 40 | 9.662377 | 41 | 9.713902 | 52 | 0.286098 | 9.948475 | 11 | 20 | |
| | 50 | 9.662418 | 41 | 9.713954 | 51 | 0.286046 | 9.948464 | 11 | 10 | |
| 51 | 0 | 9.662459 | 40 | 9.714005 | 51 | 0.285995 | 9.948454 | 11 | 0 | 38 |
| 1 5.1 | 10 | 9.662499 | 41 | 9.714057 | 52 | 0.285943 | 9.948443 | 11 | 50 | |
| 2 10.2 | 20 | 9.662540 | 41 | 9.714108 | 51 | 0.285892 | 9.948432 | 11 | 40 | |
| 3 15.3 | 30 | 9.662581 | 40 | 9.714160 | 51 | 0.285840 | 9.948421 | 11 | 30 | |
| 4 20.4 | 40 | 9.662621 | 41 | 9.714211 | 52 | 0.285789 | 9.948410 | 11 | 20 | |
| 5 25.5 | 50 | 9.662662 | 41 | 9.714263 | 51 | 0.285737 | 9.948399 | 11 | 10 | |
| 6 30.6 | 0 | 9.662703 | 40 | 9.714314 | 52 | 0.285686 | 9.948388 | 11 | 0 | 37 |
| 7 35.7 | 10 | 9.662743 | 41 | 9.714366 | 51 | 0.285634 | 9.948377 | 11 | 50 | |
| 8 40.8 | 20 | 9.662784 | 41 | 9.714418 | 52 | 0.285582 | 9.948366 | 11 | 40 | |
| 9 45.9 | 30 | 9.662825 | 40 | 9.714469 | 52 | 0.285531 | 9.948355 | 11 | 30 | |
| | 40 | 9.662865 | 41 | 9.714521 | 51 | 0.285479 | 9.948344 | 11 | 20 | |
| * | 50 | 9.662906 | 41 | 9.714572 | 52 | 0.285428 | 9.948334 | 11 | 10 | |
| | 0 | 9.662946 | 41 | 9.714624 | 51 | 0.285376 | 9.948323 | 11 | 0 | 36 |
| 41 | 10 | 9.662987 | 41 | 9.714675 | 52 | 0.285325 | 9.948312 | 11 | 50 | |
| 1 4.1 | 20 | 9.663028 | 40 | 9.714727 | 51 | 0.285273 | 9.948301 | 11 | 40 | |
| 2 8.2 | 30 | 9.663068 | 41 | 9.714778 | 52 | 0.285222 | 9.948290 | 11 | 30 | |
| 3 12.3 | 40 | 9.663109 | 40 | 9.714830 | 51 | 0.285170 | 9.948279 | 11 | 20 | |
| 4 16.4 | 50 | 9.663149 | 41 | 9.714881 | 52 | 0.285119 | 9.948268 | 11 | 10 | |
| 5 20.5 | 0 | 9.663190 | 41 | 9.714933 | 51 | 0.285067 | 9.948257 | 11 | 0 | 35 |
| 6 24.6 | 10 | 9.663231 | 40 | 9.714984 | 52 | 0.285016 | 9.948246 | 11 | 50 | |
| 7 28.7 | 20 | 9.663271 | 41 | 9.715036 | 51 | 0.284964 | 9.948235 | 11 | 40 | |
| 8 32.8 | 30 | 9.663312 | 40 | 9.715087 | 52 | 0.284913 | 9.948224 | 11 | 30 | |
| 9 36.9 | 40 | 9.663352 | 41 | 9.715139 | 51 | 0.284861 | 9.948213 | 10 | 20 | |
| | 50 | 9.663393 | 40 | 9.715190 | 52 | 0.284810 | 9.948203 | 11 | 10 | |
| | 0 | 9.663433 | 41 | 9.715242 | 51 | 0.284758 | 9.948192 | 11 | 0 | 34 |
| 40 | 10 | 9.663474 | 41 | 9.715293 | 52 | 0.284707 | 9.948181 | 11 | 50 | |
| 1 4.0 | 20 | 9.663515 | 40 | 9.715345 | 51 | 0.284655 | 9.948170 | 11 | 40 | |
| 2 8.0 | 30 | 9.663555 | 41 | 9.715396 | 52 | 0.284604 | 9.948159 | 11 | 30 | |
| 3 12.0 | 40 | 9.663595 | 41 | 9.715448 | 51 | 0.284552 | 9.948148 | 11 | 20 | |
| 4 16.0 | 50 | 9.663636 | 40 | 9.715499 | 52 | 0.284501 | 9.948137 | 11 | 10 | |
| 5 20.0 | 0 | 9.663677 | 41 | 9.715551 | 51 | 0.284450 | 9.948126 | 11 | 0 | 33 |
| 6 24.0 | 10 | 9.663717 | 41 | 9.715602 | 52 | 0.284398 | 9.948115 | 11 | 50 | |
| 7 28.0 | 20 | 9.663758 | 41 | 9.715654 | 51 | 0.284346 | 9.948104 | 11 | 40 | |
| 8 32.0 | 30 | 9.663798 | 40 | 9.715705 | 52 | 0.284295 | 9.948093 | 11 | 30 | |
| 9 36.0 | 40 | 9.663839 | 41 | 9.715757 | 51 | 0.284243 | 9.948082 | 11 | 20 | |
| * | 50 | 9.663879 | 41 | 9.715808 | 52 | 0.284192 | 9.948071 | 11 | 10 | |
| | 0 | 9.663920 | 40 | 9.715860 | 51 | 0.284140 | 9.948060 | 11 | 0 | 32 |
| | 10 | 9.663960 | 41 | 9.715911 | 52 | 0.284089 | 9.948049 | 11 | 50 | |
| 11 | 20 | 9.664001 | 41 | 9.715962 | 51 | 0.284038 | 9.948038 | 11 | 40 | |
| 1 1.1 | 30 | 9.664041 | 40 | 9.716014 | 52 | 0.283986 | 9.948028 | 10 | 30 | |
| 2 2.2 | 40 | 9.664082 | 41 | 9.716065 | 51 | 0.283935 | 9.948017 | 11 | 20 | |
| 3 3.3 | 50 | 9.664122 | 40 | 9.716117 | 52 | 0.283883 | 9.948006 | 11 | 10 | |
| 4 4.4 | 0 | 9.664163 | 41 | 9.716168 | 51 | 0.283832 | 9.947995 | 11 | 0 | 31 |
| 5 5.5 | 10 | 9.664203 | 41 | 9.716220 | 52 | 0.283780 | 9.947984 | 11 | 50 | |
| 6 6.6 | 20 | 9.664244 | 41 | 9.716271 | 51 | 0.283729 | 9.947973 | 11 | 40 | |
| 7 7.7 | 30 | 9.664284 | 40 | 9.716322 | 52 | 0.283678 | 9.947962 | 11 | 30 | |
| 8 8.8 | 40 | 9.664325 | 41 | 9.716374 | 51 | 0.283626 | 9.947951 | 11 | 20 | |
| 9 9.9 | 50 | 9.664365 | 40 | 9.716425 | 52 | 0.283575 | 9.947940 | 11 | 10 | |
| | 0 | 9.664406 | 41 | 9.716477 | 51 | 0.283523 | 9.947929 | 11 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 30 | 0 | 9.664406 | 40 | 9.716477 | 51 | 0.283523 | 9.947929 | 11 | 0 | 30 |
| | 10 | 9.664446 | 40 | 9.716528 | 51 | 0.283472 | 9.947918 | 11 | 50 | 1 52 |
| | 20 | 9.664486 | 41 | 9.716579 | 52 | 0.283421 | 9.947907 | 11 | 40 | 2 10.4 |
| | 30 | 9.664527 | 40 | 9.716631 | 51 | 0.283369 | 9.947896 | 11 | 30 | 3 15.6 |
| | 40 | 9.664567 | 41 | 9.716682 | 52 | 0.283318 | 9.947885 | 11 | 20 | 4 20.8 |
| | 50 | 9.664608 | 41 | 9.716734 | 51 | 0.283266 | 9.947874 | 11 | 10 | 5 26.0 |
| 31 | 0 | 9.664648 | 40 | 9.716785 | 51 | 0.283215 | 9.947863 | 11 | 0 | 6 31.2 |
| | 10 | 9.664689 | 41 | 9.716836 | 52 | 0.283164 | 9.947852 | 11 | 50 | 7 36.4 |
| | 20 | 9.664729 | 40 | 9.716888 | 51 | 0.283112 | 9.947841 | 11 | 40 | 8 41.6 |
| | 30 | 9.664769 | 41 | 9.716939 | 52 | 0.283061 | 9.947830 | 11 | 30 | 9 46.8 |
| | 40 | 9.664810 | 41 | 9.716991 | 51 | 0.283009 | 9.947819 | 11 | 20 | |
| | 50 | 9.664850 | 40 | 9.717042 | 51 | 0.282958 | 9.947808 | 11 | 10 | |
| 32 | 0 | 9.664891 | 41 | 9.717093 | 52 | 0.282907 | 9.947797 | 11 | 0 | 28 |
| | 10 | 9.664931 | 40 | 9.717145 | 51 | 0.282855 | 9.947786 | 11 | 50 | 1 51 |
| | 20 | 9.664971 | 41 | 9.717196 | 52 | 0.282804 | 9.947775 | 11 | 40 | 2 10.2 |
| | 30 | 9.665012 | 40 | 9.717247 | 51 | 0.282753 | 9.947764 | 11 | 30 | 3 15.3 |
| | 40 | 9.665052 | 41 | 9.717299 | 52 | 0.282701 | 9.947753 | 11 | 20 | 4 20.4 |
| | 50 | 9.665093 | 41 | 9.717350 | 51 | 0.282650 | 9.947742 | 11 | 10 | 5 25.5 |
| 33 | 0 | 9.665133 | 40 | 9.717401 | 52 | 0.282599 | 9.947731 | 11 | 0 | 6 30.6 |
| | 10 | 9.665173 | 41 | 9.717453 | 51 | 0.282547 | 9.947720 | 11 | 50 | 7 35.7 |
| | 20 | 9.665214 | 40 | 9.717504 | 52 | 0.282496 | 9.947709 | 11 | 40 | 8 40.8 |
| | 30 | 9.665254 | 41 | 9.717555 | 51 | 0.282445 | 9.947698 | 11 | 30 | 9 45.9 |
| | 40 | 9.665294 | 40 | 9.717607 | 52 | 0.282393 | 9.947687 | 11 | 20 | |
| | 50 | 9.665335 | 41 | 9.717658 | 51 | 0.282342 | 9.947676 | 11 | 10 | |
| 34 | 0 | 9.665375 | 40 | 9.717709 | 52 | 0.282291 | 9.947665 | 11 | 0 | 26 |
| | 10 | 9.665415 | 41 | 9.717761 | 51 | 0.282239 | 9.947655 | 11 | 50 | |
| | 20 | 9.665456 | 40 | 9.717812 | 52 | 0.282188 | 9.947644 | 11 | 40 | 41 |
| | 30 | 9.665496 | 41 | 9.717863 | 51 | 0.282137 | 9.947633 | 11 | 30 | 1 4.1 |
| | 40 | 9.665536 | 40 | 9.717915 | 52 | 0.282085 | 9.947622 | 11 | 20 | 2 8.2 |
| | 50 | 9.665577 | 41 | 9.717966 | 51 | 0.282034 | 9.947611 | 11 | 10 | 3 12.3 |
| 35 | 0 | 9.665617 | 40 | 9.718017 | 52 | 0.281983 | 9.947600 | 11 | 0 | 4 16.4 |
| | 10 | 9.665657 | 41 | 9.718069 | 51 | 0.281931 | 9.947589 | 11 | 50 | 5 20.5 |
| | 20 | 9.665697 | 40 | 9.718120 | 52 | 0.281880 | 9.947578 | 11 | 40 | 6 24.6 |
| | 30 | 9.665738 | 41 | 9.718171 | 51 | 0.281829 | 9.947567 | 11 | 30 | 7 28.7 |
| | 40 | 9.665778 | 40 | 9.718223 | 52 | 0.281777 | 9.947556 | 11 | 20 | 8 32.8 |
| | 50 | 9.665818 | 41 | 9.718274 | 51 | 0.281726 | 9.947545 | 11 | 10 | 9 36.9 |
| 36 | 0 | 9.665859 | 40 | 9.718325 | 52 | 0.281675 | 9.947533 | 11 | 0 | 24 |
| | 10 | 9.665899 | 41 | 9.718376 | 51 | 0.281624 | 9.947522 | 11 | 50 | 40 |
| | 20 | 9.665939 | 40 | 9.718428 | 52 | 0.281572 | 9.947511 | 11 | 40 | 1 4.0 |
| | 30 | 9.665979 | 41 | 9.718479 | 51 | 0.281521 | 9.947500 | 11 | 30 | 2 8.0 |
| | 40 | 9.666020 | 40 | 9.718530 | 52 | 0.281470 | 9.947489 | 11 | 20 | 3 12.0 |
| | 50 | 9.666060 | 41 | 9.718581 | 51 | 0.281419 | 9.947478 | 11 | 10 | 4 16.0 |
| 37 | 0 | 9.666100 | 40 | 9.718633 | 52 | 0.281367 | 9.947467 | 11 | 0 | 5 20.0 |
| | 10 | 9.666140 | 41 | 9.718684 | 51 | 0.281316 | 9.947456 | 11 | 50 | 6 24.0 |
| | 20 | 9.666181 | 40 | 9.718735 | 52 | 0.281265 | 9.947445 | 11 | 40 | 7 28.0 |
| | 30 | 9.666221 | 41 | 9.718786 | 51 | 0.281214 | 9.947434 | 11 | 30 | 8 32.0 |
| | 40 | 9.666261 | 40 | 9.718838 | 52 | 0.281162 | 9.947423 | 11 | 20 | 9 36.0 |
| | 50 | 9.666301 | 41 | 9.718889 | 51 | 0.281111 | 9.947412 | 11 | 10 | |
| 38 | 0 | 9.666342 | 40 | 9.718940 | 52 | 0.281060 | 9.947401 | 11 | 0 | 22 |
| | 10 | 9.666382 | 41 | 9.718991 | 51 | 0.281009 | 9.947390 | 11 | 50 | |
| | 20 | 9.666422 | 40 | 9.719043 | 52 | 0.280957 | 9.947379 | 11 | 40 | 12 |
| | 30 | 9.666462 | 41 | 9.719094 | 51 | 0.280906 | 9.947368 | 11 | 30 | 1 1.2 |
| | 40 | 9.666502 | 40 | 9.719145 | 52 | 0.280855 | 9.947357 | 11 | 20 | 2 2.4 |
| | 50 | 9.666543 | 41 | 9.719196 | 51 | 0.280804 | 9.947346 | 11 | 10 | 3 3.6 |
| 39 | 0 | 9.666583 | 40 | 9.719248 | 52 | 0.280752 | 9.947335 | 11 | 0 | 4 4.8 |
| | 10 | 9.666623 | 41 | 9.719299 | 51 | 0.280701 | 9.947324 | 11 | 50 | 5 6.0 |
| | 20 | 9.666663 | 40 | 9.719350 | 52 | 0.280650 | 9.947313 | 11 | 40 | 6 7.2 |
| | 30 | 9.666703 | 41 | 9.719401 | 51 | 0.280599 | 9.947302 | 11 | 30 | 7 8.4 |
| | 40 | 9.666743 | 40 | 9.719452 | 52 | 0.280548 | 9.947291 | 11 | 20 | 8 9.6 |
| | 50 | 9.666784 | 41 | 9.719504 | 51 | 0.280496 | 9.947280 | 11 | 10 | 9 10.8 |
| 40 | 0 | 9.666824 | 40 | 9.719555 | 51 | 0.280445 | 9.947269 | 11 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c | Cotg | Cos | d. | | |
|--------|----|-----------|----|----------|-------|----------|----------|----|----|----|
| 52 | 40 | 0.966824 | 40 | 9.719555 | 51 | 0.280445 | 9.947269 | 11 | 0 | 20 |
| 1 5.2 | 10 | 0.9668864 | 40 | 9.719606 | 51 | 0.280394 | 9.947258 | 11 | 50 | |
| 2 10.4 | 20 | 0.966904 | 40 | 9.719657 | 51 | 0.280343 | 9.947247 | 11 | 40 | |
| 3 15.6 | 30 | 0.966944 | 40 | 9.719708 | 51 | 0.280292 | 9.947236 | 11 | 30 | |
| 4 20.8 | 40 | 0.966984 | 41 | 9.719760 | 52 | 0.280240 | 9.947225 | 11 | 20 | |
| 5 26.0 | 50 | 0.967025 | 41 | 9.719811 | 51 | 0.280189 | 9.947214 | 11 | 10 | |
| 6 31.2 | 41 | 0.967065 | 40 | 9.719862 | 51 | 0.280138 | 9.947203 | 11 | 0 | 19 |
| 7 36.4 | 10 | 0.9667105 | 40 | 9.719913 | 51 | 0.280087 | 9.947192 | 11 | 50 | |
| 8 41.6 | 20 | 0.9667145 | 40 | 9.719964 | 51 | 0.280036 | 9.947181 | 11 | 40 | |
| 9 46.8 | 30 | 0.9667185 | 40 | 9.720016 | 52 | 0.279984 | 9.947170 | 12 | 30 | |
| | 40 | 0.9667225 | 40 | 9.720067 | 51 | 0.279933 | 9.947158 | 11 | 20 | |
| | 50 | 0.9667265 | 40 | 9.720118 | 52 | 0.279882 | 9.947147 | 11 | 10 | |
| 51 | 42 | 0.9667305 | 41 | 9.720169 | 51 | 0.279831 | 9.947136 | 11 | 0 | 18 |
| 1 5.1 | 10 | 0.9667346 | 40 | 9.720220 | 51 | 0.279780 | 9.947125 | 11 | 50 | |
| 2 10.2 | 20 | 0.9667386 | 40 | 9.720271 | 51 | 0.279729 | 9.947114 | 11 | 40 | |
| 3 15.3 | 30 | 0.9667426 | 40 | 9.720322 | 51 | 0.279678 | 9.947103 | 11 | 30 | |
| 4 20.4 | 40 | 0.9667466 | 40 | 9.720374 | 52 | 0.279626 | 9.947092 | 11 | 20 | |
| 5 25.5 | 50 | 0.9667506 | 40 | 9.720425 | 51 | 0.279575 | 9.947081 | 11 | 10 | |
| 6 30.6 | 43 | 0.9667546 | 40 | 9.720476 | 51 | 0.279524 | 9.947070 | 11 | 0 | 17 |
| 7 35.7 | 10 | 0.9667586 | 40 | 9.720527 | 51 | 0.279473 | 9.947059 | 11 | 50 | |
| 8 40.8 | 20 | 0.9667626 | 40 | 9.720578 | 51 | 0.279422 | 9.947048 | 11 | 40 | |
| 9 45.9 | 30 | 0.9667666 | 40 | 9.720629 | 51 | 0.279371 | 9.947037 | 11 | 30 | |
| | 40 | 0.9667706 | 40 | 9.720680 | 51 | 0.279320 | 9.947026 | 11 | 20 | |
| | 50 | 0.9667746 | 40 | 9.720732 | 52 | 0.279268 | 9.947015 | 11 | 10 | |
| * | 44 | 0.9667786 | 40 | 9.720783 | 51 | 0.279217 | 9.947004 | 11 | 0 | 16 |
| | 10 | 0.9667826 | 40 | 9.720834 | 51 | 0.279166 | 9.946993 | 11 | 50 | |
| 41 | 20 | 0.9667866 | 40 | 9.720885 | 51 | 0.279115 | 9.946982 | 12 | 40 | |
| 1 4.1 | 30 | 0.9667906 | 40 | 9.720936 | 51 | 0.279064 | 9.946970 | 11 | 30 | |
| 2 8.2 | 40 | 0.9667946 | 40 | 9.720987 | 51 | 0.279013 | 9.946959 | 11 | 20 | |
| 3 12.3 | 50 | 0.9667986 | 41 | 9.721038 | 51 | 0.278962 | 9.946948 | 11 | 10 | |
| 4 16.4 | 45 | 0.9668027 | 40 | 9.721089 | 51 | 0.278911 | 9.946937 | 11 | 0 | 15 |
| 5 20.5 | 10 | 0.9668067 | 40 | 9.721140 | 51 | 0.278860 | 9.946926 | 11 | 50 | |
| 6 24.6 | 20 | 0.9668107 | 40 | 9.721191 | 51 | 0.278809 | 9.946915 | 11 | 40 | |
| 7 28.7 | 30 | 0.9668147 | 40 | 9.721243 | 51 | 0.278757 | 9.946904 | 11 | 30 | |
| 8 32.8 | 40 | 0.9668187 | 40 | 9.721294 | 51 | 0.278706 | 9.946893 | 11 | 20 | |
| 9 36.9 | 50 | 0.9668227 | 40 | 9.721345 | 51 | 0.278655 | 9.946882 | 11 | 10 | |
| | 46 | 0.9668267 | 40 | 9.721396 | 51 | 0.278604 | 9.946871 | 11 | 0 | 14 |
| 40 | 10 | 0.9668307 | 40 | 9.721447 | 51 | 0.278553 | 9.946860 | 11 | 50 | |
| 1 4.0 | 20 | 0.9668347 | 40 | 9.721498 | 51 | 0.278502 | 9.946849 | 11 | 40 | |
| 2 8.0 | 30 | 0.9668386 | 39 | 9.721549 | 51 | 0.278451 | 9.946837 | 12 | 30 | |
| 3 12.0 | 40 | 0.9668426 | 40 | 9.721600 | 51 | 0.278400 | 9.946826 | 11 | 20 | |
| 4 16.0 | 50 | 0.9668466 | 40 | 9.721651 | 51 | 0.278349 | 9.946815 | 11 | 10 | |
| 5 20.0 | 47 | 0.9668506 | 40 | 9.721702 | 51 | 0.278298 | 9.946804 | 11 | 0 | 13 |
| 6 24.0 | 10 | 0.9668546 | 40 | 9.721753 | 51 | 0.278247 | 9.946793 | 11 | 50 | |
| 7 28.0 | 20 | 0.9668586 | 40 | 9.721804 | 51 | 0.278196 | 9.946782 | 11 | 40 | |
| 8 32.0 | 30 | 0.9668626 | 40 | 9.721855 | 51 | 0.278145 | 9.946771 | 11 | 30 | |
| 9 36.0 | 40 | 0.9668666 | 40 | 9.721906 | 51 | 0.278094 | 9.946760 | 11 | 20 | |
| | 50 | 0.9668706 | 40 | 9.721957 | 51 | 0.278043 | 9.946749 | 11 | 10 | |
| * | 48 | 0.9668746 | 40 | 9.722009 | 51 | 0.277991 | 9.946738 | 12 | 0 | 12 |
| | 10 | 0.9668786 | 40 | 9.722060 | 51 | 0.277940 | 9.946726 | 11 | 50 | |
| | 20 | 0.9668826 | 40 | 9.722111 | 51 | 0.277889 | 9.946715 | 11 | 40 | |
| 11 | 30 | 0.9668866 | 40 | 9.722162 | 51 | 0.277838 | 9.946704 | 11 | 30 | |
| 1 1.1 | 40 | 0.9668906 | 40 | 9.722213 | 51 | 0.277787 | 9.946693 | 11 | 20 | |
| 2 2.2 | 50 | 0.9668946 | 40 | 9.722264 | 51 | 0.277736 | 9.946682 | 11 | 10 | |
| 3 3.3 | 49 | 0.9668986 | 40 | 9.722315 | 51 | 0.277685 | 9.946671 | 11 | 0 | 11 |
| 4 4.4 | 10 | 0.9669026 | 40 | 9.722366 | 51 | 0.277634 | 9.946660 | 11 | 50 | |
| 5 5.5 | 20 | 0.9669065 | 39 | 9.722417 | 51 | 0.277583 | 9.946649 | 11 | 40 | |
| 6 6.6 | 30 | 0.9669105 | 40 | 9.722468 | 51 | 0.277532 | 9.946638 | 11 | 30 | |
| 7 7.7 | 40 | 0.9669145 | 40 | 9.722519 | 51 | 0.277481 | 9.946627 | 12 | 20 | |
| 8 8.8 | 50 | 0.9669185 | 40 | 9.722570 | 51 | 0.277430 | 9.946615 | 11 | 10 | |
| 9 9.9 | 50 | 0.9669225 | 40 | 9.722621 | 51 | 0.277379 | 9.946604 | 11 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.669225 | 40 | 9.722621 | 51 | 0.277379 | 9.946604 | 11 | 0 | 10 |
| | 10 | 9.669265 | 40 | 9.722672 | 51 | 0.277328 | 9.946593 | 11 | 50 | 51 |
| | 20 | 9.669305 | 40 | 9.722723 | 51 | 0.277277 | 9.946582 | 11 | 40 | 1 5.1 |
| | 30 | 9.669345 | 40 | 9.722774 | 51 | 0.277226 | 9.946571 | 11 | 30 | 2 10.2 |
| | 40 | 9.669384 | 39 | 9.722825 | 51 | 0.277175 | 9.946560 | 11 | 20 | 3 15.3 |
| | 50 | 9.669424 | 40 | 9.722876 | 51 | 0.277124 | 9.946549 | 11 | 10 | 4 20.4 |
| 51 | 0 | 9.669464 | 40 | 9.722927 | 51 | 0.277073 | 9.946538 | 11 | 0 | 5 25.5 |
| | 10 | 9.669504 | 40 | 9.722978 | 51 | 0.277022 | 9.946526 | 12 | 50 | 6 30.6 |
| | 20 | 9.669544 | 40 | 9.723029 | 51 | 0.276971 | 9.946515 | 11 | 40 | 7 35.7 |
| | 30 | 9.669584 | 40 | 9.723080 | 51 | 0.276920 | 9.946504 | 11 | 30 | 8 40.8 |
| | 40 | 9.669624 | 40 | 9.723130 | 50 | 0.276870 | 9.946493 | 11 | 20 | 9 45.9 |
| | 50 | 9.669663 | 39 | 9.723181 | 51 | 0.276819 | 9.946482 | 11 | 10 | |
| 52 | 0 | 9.669703 | 40 | 9.723232 | 51 | 0.276768 | 9.946471 | 11 | 0 | 50 |
| | 10 | 9.669743 | 40 | 9.723283 | 51 | 0.276717 | 9.946460 | 11 | 50 | 1 5.0 |
| | 20 | 9.669783 | 40 | 9.723334 | 51 | 0.276666 | 9.946449 | 11 | 40 | 2 10.0 |
| | 30 | 9.669823 | 40 | 9.723385 | 51 | 0.276615 | 9.946437 | 12 | 30 | 3 15.0 |
| | 40 | 9.669862 | 39 | 9.723436 | 51 | 0.276564 | 9.946426 | 11 | 20 | 4 20.0 |
| | 50 | 9.669902 | 40 | 9.723487 | 51 | 0.276513 | 9.946415 | 11 | 10 | 5 25.0 |
| 53 | 0 | 9.669942 | 40 | 9.723538 | 51 | 0.276462 | 9.946404 | 11 | 0 | 6 30.0 |
| | 10 | 9.669982 | 40 | 9.723589 | 51 | 0.276411 | 9.946393 | 11 | 50 | 7 35.0 |
| | 20 | 9.670022 | 39 | 9.723640 | 51 | 0.276360 | 9.946382 | 11 | 40 | 8 40.0 |
| | 30 | 9.670061 | 40 | 9.723691 | 51 | 0.276309 | 9.946371 | 11 | 30 | 9 45.0 |
| | 40 | 9.670101 | 40 | 9.723742 | 51 | 0.276258 | 9.946359 | 12 | 20 | |
| | 50 | 9.670141 | 40 | 9.723793 | 51 | 0.276207 | 9.946348 | 11 | 10 | |
| 54 | 0 | 9.670181 | 39 | 9.723844 | 51 | 0.276156 | 9.946337 | 11 | 0 | * |
| | 10 | 9.670220 | 40 | 9.723895 | 50 | 0.276105 | 9.946326 | 11 | 50 | 40 |
| | 20 | 9.670260 | 40 | 9.723945 | 51 | 0.276055 | 9.946315 | 11 | 40 | 1 4.0 |
| | 30 | 9.670300 | 40 | 9.723996 | 51 | 0.276004 | 9.946304 | 11 | 30 | 2 8.0 |
| | 40 | 9.670340 | 39 | 9.724047 | 51 | 0.275953 | 9.946293 | 11 | 20 | 3 12.0 |
| | 50 | 9.670379 | 40 | 9.724098 | 51 | 0.275902 | 9.946281 | 12 | 10 | 4 16.0 |
| 55 | 0 | 9.670419 | 40 | 9.724149 | 51 | 0.275851 | 9.946270 | 11 | 0 | 5 20.0 |
| | 10 | 9.670459 | 40 | 9.724200 | 51 | 0.275800 | 9.946259 | 11 | 50 | 6 24.0 |
| | 20 | 9.670499 | 39 | 9.724251 | 51 | 0.275749 | 9.946248 | 11 | 40 | 7 28.0 |
| | 30 | 9.670538 | 40 | 9.724302 | 51 | 0.275698 | 9.946237 | 11 | 30 | 8 32.0 |
| | 40 | 9.670578 | 40 | 9.724353 | 50 | 0.275647 | 9.946226 | 11 | 20 | 9 36.0 |
| | 50 | 9.670618 | 40 | 9.724403 | 51 | 0.275597 | 9.946214 | 12 | 10 | |
| 56 | 0 | 9.670658 | 39 | 9.724454 | 51 | 0.275546 | 9.946203 | 11 | 0 | 4 |
| | 10 | 9.670697 | 40 | 9.724505 | 51 | 0.275495 | 9.946192 | 11 | 50 | 39 |
| | 20 | 9.670737 | 40 | 9.724556 | 51 | 0.275444 | 9.946181 | 11 | 40 | 1 3.9 |
| | 30 | 9.670777 | 40 | 9.724607 | 51 | 0.275393 | 9.946170 | 11 | 30 | 2 7.8 |
| | 40 | 9.670816 | 39 | 9.724658 | 51 | 0.275342 | 9.946159 | 11 | 20 | 3 11.7 |
| | 50 | 9.670856 | 40 | 9.724709 | 51 | 0.275291 | 9.946147 | 12 | 10 | 4 15.6 |
| 57 | 0 | 9.670896 | 39 | 9.724760 | 50 | 0.275240 | 9.946136 | 11 | 0 | 5 19.5 |
| | 10 | 9.670935 | 40 | 9.724810 | 51 | 0.275190 | 9.946125 | 11 | 50 | 6 23.4 |
| | 20 | 9.670975 | 40 | 9.724861 | 51 | 0.275139 | 9.946114 | 11 | 40 | 7 27.3 |
| | 30 | 9.671015 | 40 | 9.724912 | 51 | 0.275088 | 9.946103 | 11 | 30 | 8 31.2 |
| | 40 | 9.671054 | 39 | 9.724963 | 51 | 0.275037 | 9.946092 | 11 | 20 | 9 35.1 |
| | 50 | 9.671094 | 40 | 9.725014 | 51 | 0.274986 | 9.946080 | 12 | 10 | |
| 58 | 0 | 9.671134 | 39 | 9.725065 | 50 | 0.274935 | 9.946069 | 11 | 0 | * |
| | 10 | 9.671173 | 40 | 9.725115 | 51 | 0.274885 | 9.946058 | 11 | 50 | 12 |
| | 20 | 9.671213 | 40 | 9.725166 | 51 | 0.274834 | 9.946047 | 11 | 40 | 1 1.2 |
| | 30 | 9.671253 | 40 | 9.725217 | 51 | 0.274783 | 9.946036 | 11 | 30 | 2 2.4 |
| | 40 | 9.671292 | 39 | 9.725268 | 51 | 0.274732 | 9.946024 | 12 | 20 | 3 3.6 |
| | 50 | 9.671332 | 40 | 9.725319 | 51 | 0.274681 | 9.946013 | 11 | 10 | 4 4.8 |
| 59 | 0 | 9.671372 | 39 | 9.725370 | 50 | 0.274630 | 9.946002 | 11 | 0 | 5 6.0 |
| | 10 | 9.671411 | 40 | 9.725420 | 51 | 0.274580 | 9.945991 | 11 | 50 | 6 7.2 |
| | 20 | 9.671451 | 40 | 9.725471 | 51 | 0.274529 | 9.945980 | 11 | 40 | 7 8.4 |
| | 30 | 9.671490 | 39 | 9.725522 | 51 | 0.274478 | 9.945969 | 11 | 30 | 8 9.6 |
| | 40 | 9.671530 | 40 | 9.725573 | 51 | 0.274427 | 9.945957 | 12 | 20 | 9 10.8 |
| | 50 | 9.671570 | 40 | 9.725624 | 50 | 0.274376 | 9.945946 | 11 | 10 | |
| 60 | 0 | 9.671609 | 39 | 9.725674 | 50 | 0.274326 | 9.945935 | 11 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 51 | 0 | 9.671609 | 40 | 9.725674 | 51 | 0.274326 | 9.945935 | 11 | 0 | 60 |
| 1 5.1 | 10 | 9.671649 | 39 | 9.725725 | 51 | 0.274275 | 9.945924 | 11 | 50 | |
| 2 10.2 | 20 | 9.671688 | 40 | 9.725776 | 51 | 0.274224 | 9.945913 | 12 | 40 | |
| 3 15.3 | 30 | 9.671728 | 40 | 9.725827 | 51 | 0.274173 | 9.945901 | 11 | 30 | |
| 4 20.4 | 40 | 9.671768 | 39 | 9.725878 | 50 | 0.274122 | 9.945890 | 11 | 20 | |
| 5 25.5 | 50 | 9.671807 | 39 | 9.725928 | 50 | 0.274072 | 9.945879 | 11 | 10 | |
| 6 30.6 | 1 | 9.671847 | 40 | 9.725979 | 51 | 0.274021 | 9.945868 | 11 | 0 | 59 |
| 7 35.7 | 10 | 9.671886 | 40 | 9.726030 | 51 | 0.273970 | 9.945857 | 12 | 50 | |
| 8 40.8 | 20 | 9.671926 | 39 | 9.726081 | 50 | 0.273919 | 9.945845 | 11 | 40 | |
| 9 45.9 | 30 | 9.671965 | 40 | 9.726131 | 50 | 0.273869 | 9.945834 | 11 | 30 | |
| | 40 | 9.672005 | 40 | 9.726182 | 51 | 0.273818 | 9.945823 | 11 | 20 | |
| | 50 | 9.672045 | 39 | 9.726233 | 51 | 0.273767 | 9.945812 | 12 | 10 | |
| 50 | 2 | 9.672084 | 40 | 9.726284 | 50 | 0.273716 | 9.945800 | 11 | 0 | 58 |
| 1 5.0 | 10 | 9.672124 | 39 | 9.726334 | 51 | 0.273666 | 9.945789 | 11 | 50 | |
| 2 10.0 | 20 | 9.672163 | 40 | 9.726385 | 51 | 0.273615 | 9.945778 | 11 | 40 | |
| 3 15.0 | 30 | 9.672203 | 39 | 9.726436 | 51 | 0.273564 | 9.945767 | 11 | 30 | |
| 4 20.0 | 40 | 9.672242 | 40 | 9.726487 | 50 | 0.273513 | 9.945756 | 12 | 20 | |
| 5 25.0 | 50 | 9.672282 | 40 | 9.726537 | 50 | 0.273463 | 9.945744 | 11 | 10 | |
| 6 30.0 | 3 | 9.672321 | 39 | 9.726588 | 51 | 0.273412 | 9.945733 | 11 | 0 | 57 |
| 7 35.0 | 10 | 9.672361 | 39 | 9.726639 | 51 | 0.273361 | 9.945722 | 11 | 50 | |
| 8 40.0 | 20 | 9.672400 | 39 | 9.726690 | 51 | 0.273310 | 9.945711 | 11 | 40 | |
| 9 45.0 | 30 | 9.672440 | 40 | 9.726740 | 50 | 0.273260 | 9.945700 | 11 | 30 | |
| * | 40 | 9.672479 | 40 | 9.726791 | 51 | 0.273209 | 9.945688 | 12 | 20 | |
| | 50 | 9.672519 | 39 | 9.726842 | 51 | 0.273158 | 9.945677 | 11 | 10 | |
| | 4 | 9.672558 | 40 | 9.726892 | 50 | 0.273108 | 9.945666 | 11 | 0 | 56 |
| | 10 | 9.672598 | 39 | 9.726943 | 51 | 0.273057 | 9.945655 | 12 | 50 | |
| 40 | 20 | 9.672637 | 39 | 9.726994 | 51 | 0.273006 | 9.945643 | 11 | 40 | |
| 1 4.0 | 30 | 9.672677 | 40 | 9.727045 | 51 | 0.272955 | 9.945632 | 11 | 30 | |
| 2 8.0 | 40 | 9.672716 | 40 | 9.727095 | 50 | 0.272905 | 9.945621 | 11 | 20 | |
| 3 12.0 | 50 | 9.672756 | 39 | 9.727146 | 51 | 0.272854 | 9.945610 | 12 | 10 | |
| 4 16.0 | 5 | 9.672795 | 40 | 9.727197 | 50 | 0.272803 | 9.945598 | 11 | 0 | 55 |
| 5 20.0 | 10 | 9.672835 | 39 | 9.727247 | 50 | 0.272753 | 9.945587 | 11 | 50 | |
| 6 24.0 | 20 | 9.672874 | 40 | 9.727298 | 51 | 0.272702 | 9.945576 | 11 | 40 | |
| 7 28.0 | 30 | 9.672914 | 40 | 9.727349 | 51 | 0.272651 | 9.945565 | 11 | 30 | |
| 8 32.0 | 40 | 9.672953 | 39 | 9.727399 | 50 | 0.272601 | 9.945554 | 12 | 20 | |
| 9 36.0 | 50 | 9.672992 | 39 | 9.727450 | 51 | 0.272550 | 9.945542 | 11 | 10 | |
| | 6 | 9.673032 | 40 | 9.727501 | 51 | 0.272499 | 9.945531 | 11 | 0 | 54 |
| 39 | 10 | 9.673071 | 39 | 9.727551 | 50 | 0.272449 | 9.945520 | 11 | 50 | |
| 1 3.9 | 20 | 9.673111 | 40 | 9.727602 | 51 | 0.272398 | 9.945509 | 12 | 40 | |
| 2 7.8 | 30 | 9.673150 | 39 | 9.727653 | 51 | 0.272347 | 9.945497 | 11 | 30 | |
| 3 11.7 | 40 | 9.673190 | 40 | 9.727703 | 50 | 0.272297 | 9.945486 | 11 | 20 | |
| 4 15.6 | 50 | 9.673229 | 39 | 9.727754 | 51 | 0.272246 | 9.945475 | 11 | 10 | |
| 5 19.5 | 7 | 9.673268 | 39 | 9.727805 | 51 | 0.272195 | 9.945464 | 12 | 0 | 53 |
| 6 23.4 | 10 | 9.673308 | 40 | 9.727856 | 50 | 0.272145 | 9.945452 | 11 | 50 | |
| 7 27.3 | 20 | 9.673347 | 39 | 9.727906 | 51 | 0.272094 | 9.945441 | 11 | 40 | |
| 8 31.2 | 30 | 9.673387 | 40 | 9.727957 | 51 | 0.272043 | 9.945430 | 11 | 30 | |
| 9 35.1 | 40 | 9.673426 | 39 | 9.728007 | 50 | 0.271993 | 9.945419 | 12 | 20 | |
| * | 50 | 9.673465 | 39 | 9.728058 | 51 | 0.271942 | 9.945407 | 11 | 10 | |
| | 8 | 9.673505 | 40 | 9.728109 | 51 | 0.271891 | 9.945396 | 11 | 0 | 52 |
| | 10 | 9.673544 | 39 | 9.728159 | 50 | 0.271841 | 9.945385 | 11 | 50 | |
| 11 | 20 | 9.673583 | 39 | 9.728210 | 51 | 0.271790 | 9.945374 | 12 | 40 | |
| 1 1.1 | 30 | 9.673623 | 40 | 9.728261 | 51 | 0.271739 | 9.945362 | 11 | 30 | |
| 2 2.2 | 40 | 9.673662 | 40 | 9.728311 | 50 | 0.271689 | 9.945351 | 11 | 20 | |
| 3 3.3 | 50 | 9.673702 | 39 | 9.728362 | 51 | 0.271638 | 9.945340 | 12 | 10 | |
| 4 4.4 | 9 | 9.673741 | 39 | 9.728412 | 50 | 0.271588 | 9.945328 | 11 | 0 | 51 |
| 5 5.5 | 10 | 9.673780 | 40 | 9.728463 | 51 | 0.271537 | 9.945317 | 11 | 50 | |
| 6 6.6 | 20 | 9.673820 | 40 | 9.728514 | 51 | 0.271486 | 9.945306 | 11 | 40 | |
| 7 7.7 | 30 | 9.673859 | 39 | 9.728564 | 50 | 0.271436 | 9.945295 | 12 | 30 | |
| 8 8.8 | 40 | 9.673898 | 39 | 9.728615 | 51 | 0.271385 | 9.945283 | 12 | 20 | |
| 9 9.9 | 50 | 9.673938 | 40 | 9.728665 | 50 | 0.271335 | 9.945272 | 11 | 10 | |
| | 10 | 9.673977 | 39 | 9.728716 | 51 | 0.271284 | 9.945261 | 11 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.673977 | 39 | 9.728716 | 51 | 0.271284 | 9.945261 | 11 | 0 | 50 |
| | 10 | 9.674016 | 40 | 9.728767 | 50 | 0.271233 | 9.945250 | 12 | 50 | |
| | 20 | 9.674056 | 39 | 9.728817 | 51 | 0.271183 | 9.945238 | 11 | 40 | |
| | 30 | 9.674095 | 39 | 9.728868 | 50 | 0.271132 | 9.945227 | 11 | 30 | |
| | 40 | 9.674134 | 39 | 9.728918 | 51 | 0.271082 | 9.945216 | 12 | 20 | |
| | 50 | 9.674173 | 39 | 9.728969 | 51 | 0.271031 | 9.945204 | 12 | 10 | |
| 11 | 0 | 9.674213 | 40 | 9.729020 | 50 | 0.270980 | 9.945193 | 11 | 0 | 49 |
| | 10 | 9.674252 | 39 | 9.729070 | 51 | 0.270930 | 9.945182 | 11 | 50 | |
| | 20 | 9.674291 | 40 | 9.729121 | 50 | 0.270879 | 9.945171 | 12 | 40 | |
| | 30 | 9.674331 | 39 | 9.729171 | 51 | 0.270829 | 9.945159 | 12 | 30 | |
| | 40 | 9.674370 | 39 | 9.729222 | 51 | 0.270778 | 9.945148 | 11 | 20 | |
| | 50 | 9.674409 | 39 | 9.729272 | 50 | 0.270728 | 9.945137 | 12 | 10 | |
| 12 | 0 | 9.674448 | 40 | 9.729323 | 51 | 0.270677 | 9.945125 | 12 | 0 | 48 |
| | 10 | 9.674488 | 39 | 9.729374 | 50 | 0.270626 | 9.945114 | 11 | 50 | |
| | 20 | 9.674527 | 39 | 9.729424 | 51 | 0.270576 | 9.945103 | 11 | 40 | |
| | 30 | 9.674566 | 40 | 9.729475 | 50 | 0.270525 | 9.945092 | 12 | 30 | |
| | 40 | 9.674606 | 39 | 9.729525 | 51 | 0.270475 | 9.945080 | 11 | 20 | |
| | 50 | 9.674645 | 39 | 9.729576 | 50 | 0.270424 | 9.945069 | 12 | 10 | |
| 13 | 0 | 9.674684 | 39 | 9.729626 | 51 | 0.270374 | 9.945058 | 12 | 0 | 47 |
| | 10 | 9.674723 | 39 | 9.729677 | 50 | 0.270323 | 9.945046 | 11 | 50 | |
| | 20 | 9.674762 | 40 | 9.729727 | 51 | 0.270273 | 9.945035 | 11 | 40 | |
| | 30 | 9.674802 | 39 | 9.729778 | 50 | 0.270222 | 9.945024 | 11 | 30 | |
| | 40 | 9.674841 | 39 | 9.729828 | 51 | 0.270172 | 9.945013 | 12 | 20 | |
| | 50 | 9.674880 | 39 | 9.729879 | 50 | 0.270121 | 9.945001 | 12 | 10 | |
| 14 | 0 | 9.674919 | 40 | 9.729929 | 51 | 0.270071 | 9.944990 | 11 | 0 | 46 |
| | 10 | 9.674959 | 39 | 9.729980 | 50 | 0.270020 | 9.944979 | 12 | 50 | |
| | 20 | 9.674998 | 39 | 9.730030 | 51 | 0.269970 | 9.944967 | 12 | 40 | |
| | 30 | 9.675037 | 39 | 9.730081 | 51 | 0.269919 | 9.944956 | 11 | 30 | |
| | 40 | 9.675076 | 39 | 9.730132 | 50 | 0.269868 | 9.944945 | 12 | 20 | |
| | 50 | 9.675115 | 40 | 9.730182 | 51 | 0.269818 | 9.944933 | 12 | 10 | |
| 15 | 0 | 9.675155 | 39 | 9.730233 | 50 | 0.269767 | 9.944922 | 11 | 0 | 45 |
| | 10 | 9.675194 | 39 | 9.730283 | 50 | 0.269717 | 9.944911 | 12 | 50 | |
| | 20 | 9.675233 | 39 | 9.730333 | 51 | 0.269667 | 9.944899 | 12 | 40 | |
| | 30 | 9.675272 | 39 | 9.730384 | 50 | 0.269616 | 9.944888 | 11 | 30 | |
| | 40 | 9.675311 | 39 | 9.730434 | 51 | 0.269566 | 9.944877 | 12 | 20 | |
| | 50 | 9.675350 | 40 | 9.730485 | 50 | 0.269515 | 9.944865 | 12 | 10 | |
| 16 | 0 | 9.675390 | 39 | 9.730535 | 51 | 0.269465 | 9.944854 | 11 | 0 | 44 |
| | 10 | 9.675429 | 39 | 9.730586 | 50 | 0.269414 | 9.944843 | 12 | 50 | |
| | 20 | 9.675468 | 39 | 9.730636 | 51 | 0.269364 | 9.944831 | 12 | 40 | |
| | 30 | 9.675507 | 39 | 9.730687 | 50 | 0.269313 | 9.944820 | 11 | 30 | |
| | 40 | 9.675546 | 39 | 9.730737 | 51 | 0.269263 | 9.944809 | 12 | 20 | |
| | 50 | 9.675585 | 39 | 9.730788 | 50 | 0.269212 | 9.944798 | 12 | 10 | |
| 17 | 0 | 9.675624 | 40 | 9.730838 | 51 | 0.269162 | 9.944786 | 12 | 0 | 43 |
| | 10 | 9.675664 | 39 | 9.730889 | 50 | 0.269111 | 9.944775 | 11 | 50 | |
| | 20 | 9.675703 | 39 | 9.730939 | 51 | 0.269061 | 9.944764 | 12 | 40 | |
| | 30 | 9.675742 | 39 | 9.730990 | 50 | 0.269010 | 9.944752 | 12 | 30 | |
| | 40 | 9.675781 | 39 | 9.731040 | 51 | 0.268960 | 9.944741 | 11 | 20 | |
| | 50 | 9.675820 | 39 | 9.731091 | 50 | 0.268909 | 9.944730 | 12 | 10 | |
| 18 | 0 | 9.675859 | 39 | 9.731141 | 50 | 0.268859 | 9.944718 | 12 | 0 | 42 |
| | 10 | 9.675898 | 39 | 9.731191 | 51 | 0.268809 | 9.944707 | 11 | 50 | |
| | 20 | 9.675937 | 39 | 9.731242 | 50 | 0.268758 | 9.944696 | 12 | 40 | |
| | 30 | 9.675976 | 39 | 9.731292 | 51 | 0.268708 | 9.944684 | 12 | 30 | |
| | 40 | 9.676016 | 40 | 9.731343 | 51 | 0.268657 | 9.944673 | 12 | 20 | |
| | 50 | 9.676055 | 39 | 9.731393 | 50 | 0.268607 | 9.944661 | 12 | 10 | |
| 19 | 0 | 9.676094 | 39 | 9.731444 | 51 | 0.268556 | 9.944650 | 11 | 0 | 41 |
| | 10 | 9.676133 | 39 | 9.731494 | 50 | 0.268506 | 9.944639 | 12 | 50 | |
| | 20 | 9.676172 | 39 | 9.731544 | 51 | 0.268456 | 9.944627 | 12 | 40 | |
| | 30 | 9.676211 | 39 | 9.731595 | 50 | 0.268405 | 9.944616 | 12 | 30 | |
| | 40 | 9.676250 | 39 | 9.731645 | 51 | 0.268355 | 9.944605 | 12 | 20 | |
| | 50 | 9.676289 | 39 | 9.731696 | 50 | 0.268304 | 9.944593 | 12 | 10 | |
| 20 | 0 | 9.676328 | 39 | 9.731746 | 50 | 0.268254 | 9.944582 | 11 | 0 | 40 |

51
1 5.1
2 10.2
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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|-----|----------|------|----------|------|----------|----------|----|----|----|
| | 20 | 0 | 9.676328 | 39 | 9.731746 | 50 | 0.268254 | 9.944582 | 11 | 0 | 40 |
| 51 | | 10 | 9.676367 | 39 | 9.731796 | 51 | 0.268204 | 9.944571 | 12 | 50 | |
| 1 5.1 | | 20 | 9.676406 | 39 | 9.731847 | 51 | 0.268153 | 9.944559 | 11 | 40 | |
| 2 10.2 | | 30 | 9.676445 | 39 | 9.731897 | 51 | 0.268103 | 9.944548 | 11 | 30 | |
| 3 15.3 | | 40 | 9.676484 | 39 | 9.731948 | 51 | 0.268052 | 9.944537 | 12 | 20 | |
| 4 20.4 | | 50 | 9.676523 | 39 | 9.731998 | 51 | 0.268002 | 9.944525 | 11 | 10 | |
| 5 25.5 | | 0 | 9.676562 | 39 | 9.732048 | 51 | 0.267952 | 9.944514 | 11 | 0 | 39 |
| 6 30.6 | | 10 | 9.676601 | 39 | 9.732099 | 51 | 0.267901 | 9.944502 | 12 | 50 | |
| 7 35.7 | | 20 | 9.676640 | 39 | 9.732149 | 51 | 0.267851 | 9.944491 | 11 | 40 | |
| 8 40.8 | | 30 | 9.676679 | 39 | 9.732200 | 51 | 0.267800 | 9.944480 | 12 | 30 | |
| 9 45.9 | | 40 | 9.676718 | 39 | 9.732250 | 51 | 0.267750 | 9.944468 | 12 | 20 | |
| | | 50 | 9.676757 | 39 | 9.732300 | 51 | 0.267700 | 9.944457 | 11 | 10 | |
| | | 0 | 9.676796 | 39 | 9.732351 | 51 | 0.267649 | 9.944446 | 12 | 0 | 38 |
| 50 | | 10 | 9.676835 | 39 | 9.732401 | 51 | 0.267599 | 9.944434 | 11 | 50 | |
| 1 5.0 | | 20 | 9.676874 | 39 | 9.732451 | 51 | 0.267549 | 9.944423 | 11 | 40 | |
| 2 10.0 | | 30 | 9.676913 | 39 | 9.732502 | 51 | 0.267498 | 9.944412 | 11 | 30 | |
| 3 15.0 | | 40 | 9.676952 | 39 | 9.732552 | 51 | 0.267448 | 9.944400 | 12 | 20 | |
| 4 20.0 | | 50 | 9.676991 | 39 | 9.732602 | 51 | 0.267398 | 9.944389 | 12 | 10 | |
| 5 25.0 | | 0 | 9.677030 | 39 | 9.732653 | 51 | 0.267347 | 9.944377 | 12 | 0 | 37 |
| 6 30.0 | | 10 | 9.677069 | 39 | 9.732703 | 51 | 0.267297 | 9.944366 | 11 | 50 | |
| 7 35.0 | | 20 | 9.677108 | 39 | 9.732753 | 51 | 0.267247 | 9.944355 | 11 | 40 | |
| 8 40.0 | | 30 | 9.677147 | 39 | 9.732804 | 51 | 0.267196 | 9.944343 | 12 | 30 | |
| 9 45.0 | | 40 | 9.677186 | 39 | 9.732854 | 51 | 0.267146 | 9.944332 | 11 | 20 | |
| | | 50 | 9.677225 | 39 | 9.732904 | 51 | 0.267096 | 9.944321 | 12 | 10 | |
| * | | 0 | 9.677264 | 39 | 9.732955 | 51 | 0.267045 | 9.944309 | 11 | 0 | 36 |
| | | 10 | 9.677303 | 39 | 9.733005 | 51 | 0.266995 | 9.944298 | 12 | 50 | |
| 39 | | 20 | 9.677342 | 39 | 9.733055 | 51 | 0.266945 | 9.944286 | 11 | 40 | |
| 1 3.9 | | 30 | 9.677381 | 39 | 9.733106 | 51 | 0.266894 | 9.944275 | 11 | 30 | |
| 2 7.8 | | 40 | 9.677420 | 39 | 9.733156 | 51 | 0.266844 | 9.944264 | 12 | 20 | |
| 3 11.7 | | 50 | 9.677459 | 39 | 9.733206 | 51 | 0.266794 | 9.944252 | 12 | 10 | |
| 4 15.6 | | 0 | 9.677498 | 39 | 9.733257 | 51 | 0.266743 | 9.944241 | 12 | 0 | 35 |
| 5 19.5 | | 10 | 9.677536 | 39 | 9.733307 | 51 | 0.266693 | 9.944229 | 11 | 50 | |
| 6 23.4 | | 20 | 9.677575 | 39 | 9.733357 | 51 | 0.266643 | 9.944218 | 11 | 40 | |
| 7 27.3 | | 30 | 9.677614 | 39 | 9.733408 | 51 | 0.266592 | 9.944207 | 12 | 30 | |
| 8 31.2 | | 40 | 9.677653 | 39 | 9.733458 | 51 | 0.266542 | 9.944195 | 12 | 20 | |
| 9 35.1 | | 50 | 9.677692 | 39 | 9.733508 | 51 | 0.266492 | 9.944184 | 12 | 10 | |
| | | 0 | 9.677731 | 39 | 9.733558 | 51 | 0.266442 | 9.944172 | 12 | 0 | 34 |
| 38 | | 10 | 9.677770 | 39 | 9.733609 | 51 | 0.266391 | 9.944161 | 11 | 50 | |
| 1 3.8 | | 20 | 9.677809 | 39 | 9.733659 | 51 | 0.266341 | 9.944150 | 12 | 40 | |
| 2 7.6 | | 30 | 9.677848 | 39 | 9.733709 | 51 | 0.266291 | 9.944138 | 12 | 30 | |
| 3 11.4 | | 40 | 9.677886 | 39 | 9.733760 | 51 | 0.266240 | 9.944127 | 12 | 20 | |
| 4 15.2 | | 50 | 9.677925 | 39 | 9.733810 | 51 | 0.266190 | 9.944115 | 12 | 10 | |
| 5 19.0 | | 0 | 9.677964 | 39 | 9.733860 | 51 | 0.266140 | 9.944104 | 12 | 0 | 33 |
| 6 22.8 | | 10 | 9.678003 | 39 | 9.733910 | 51 | 0.266090 | 9.944093 | 12 | 50 | |
| 7 26.6 | | 20 | 9.678042 | 39 | 9.733961 | 51 | 0.266039 | 9.944081 | 12 | 40 | |
| 8 30.4 | | 30 | 9.678081 | 39 | 9.734011 | 51 | 0.265989 | 9.944070 | 12 | 30 | |
| 9 34.2 | | 40 | 9.678120 | 39 | 9.734061 | 51 | 0.265939 | 9.944058 | 12 | 20 | |
| | | 50 | 9.678158 | 39 | 9.734111 | 51 | 0.265889 | 9.944047 | 12 | 10 | |
| * | | 0 | 9.678197 | 39 | 9.734162 | 51 | 0.265838 | 9.944036 | 12 | 0 | 32 |
| | | 10 | 9.678236 | 39 | 9.734212 | 51 | 0.265788 | 9.944024 | 12 | 50 | |
| 11 | | 20 | 9.678275 | 39 | 9.734262 | 51 | 0.265738 | 9.944013 | 12 | 40 | |
| 1 11.1 | | 30 | 9.678314 | 39 | 9.734312 | 51 | 0.265688 | 9.944001 | 12 | 30 | |
| 2 12.2 | | 40 | 9.678353 | 39 | 9.734363 | 51 | 0.265637 | 9.943990 | 12 | 20 | |
| 3 13.3 | | 50 | 9.678392 | 39 | 9.734413 | 51 | 0.265587 | 9.943978 | 12 | 10 | |
| 4 14.4 | | 0 | 9.678430 | 39 | 9.734463 | 51 | 0.265537 | 9.943967 | 12 | 0 | 31 |
| 5 15.5 | | 10 | 9.678469 | 39 | 9.734513 | 51 | 0.265487 | 9.943956 | 12 | 50 | |
| 6 16.6 | | 20 | 9.678508 | 39 | 9.734564 | 51 | 0.265436 | 9.943944 | 12 | 40 | |
| 7 17.7 | | 30 | 9.678547 | 39 | 9.734614 | 51 | 0.265386 | 9.943933 | 12 | 30 | |
| 8 18.8 | | 40 | 9.678585 | 39 | 9.734664 | 51 | 0.265336 | 9.943921 | 12 | 20 | |
| 9 19.9 | | 50 | 9.678624 | 39 | 9.734714 | 51 | 0.265286 | 9.943910 | 12 | 10 | |
| | | 0 | 9.678663 | 39 | 9.734764 | 51 | 0.265236 | 9.943899 | 12 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. e. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|-------|
| 30 | 0 | 9.678663 | 39 | 9.734415 | 51 | 0.265236 | 9.943899 | 12 | 0 | 30 |
| | 10 | 9.678702 | 38 | 9.734415 | 50 | 0.265185 | 9.943887 | 11 | 50 | 51 |
| | 20 | 9.678740 | 38 | 9.734865 | 50 | 0.265135 | 9.943876 | 11 | 40 | 10.2 |
| | 30 | 9.678779 | 39 | 9.734915 | 50 | 0.265085 | 9.943864 | 11 | 30 | 315.3 |
| | 40 | 9.678818 | 39 | 9.734965 | 50 | 0.265035 | 9.943853 | 11 | 20 | 420.4 |
| | 50 | 9.678857 | 38 | 9.735015 | 51 | 0.264985 | 9.943841 | 11 | 10 | 525.5 |
| 31 | 0 | 9.678895 | 39 | 9.735066 | 50 | 0.264934 | 9.943830 | 12 | 0 | 630.6 |
| | 10 | 9.678934 | 39 | 9.735116 | 50 | 0.264884 | 9.943818 | 11 | 50 | 735.7 |
| | 20 | 9.678973 | 39 | 9.735166 | 50 | 0.264834 | 9.943807 | 11 | 40 | 840.8 |
| | 30 | 9.679012 | 39 | 9.735216 | 50 | 0.264784 | 9.943796 | 11 | 30 | 945.9 |
| | 40 | 9.679050 | 38 | 9.735266 | 50 | 0.264734 | 9.943784 | 12 | 20 | |
| | 50 | 9.679089 | 39 | 9.735317 | 51 | 0.264684 | 9.943773 | 11 | 10 | |
| 32 | 0 | 9.679128 | 39 | 9.735367 | 50 | 0.264634 | 9.943762 | 12 | 0 | 28 |
| | 10 | 9.679167 | 38 | 9.735417 | 50 | 0.264583 | 9.943750 | 11 | 50 | 50 |
| | 20 | 9.679205 | 39 | 9.735467 | 50 | 0.264533 | 9.943738 | 12 | 40 | 150 |
| | 30 | 9.679244 | 39 | 9.735517 | 50 | 0.264483 | 9.943727 | 11 | 30 | 315.0 |
| | 40 | 9.679283 | 38 | 9.735567 | 51 | 0.264433 | 9.943715 | 12 | 20 | 420.0 |
| | 50 | 9.679321 | 39 | 9.735618 | 50 | 0.264382 | 9.943704 | 11 | 10 | 525.0 |
| 33 | 0 | 9.679360 | 39 | 9.735668 | 50 | 0.264332 | 9.943693 | 12 | 0 | 630.0 |
| | 10 | 9.679399 | 39 | 9.735718 | 50 | 0.264282 | 9.943681 | 11 | 50 | 735.0 |
| | 20 | 9.679438 | 38 | 9.735768 | 50 | 0.264232 | 9.943670 | 11 | 40 | 840.0 |
| | 30 | 9.679476 | 39 | 9.735818 | 50 | 0.264182 | 9.943658 | 12 | 30 | 945.0 |
| | 40 | 9.679515 | 39 | 9.735868 | 50 | 0.264132 | 9.943647 | 11 | 20 | |
| | 50 | 9.679554 | 38 | 9.735918 | 51 | 0.264082 | 9.943635 | 12 | 10 | |
| 34 | 0 | 9.679592 | 39 | 9.735969 | 50 | 0.264031 | 9.943624 | 12 | 0 | 26 |
| | 10 | 9.679631 | 39 | 9.736019 | 50 | 0.263981 | 9.943612 | 11 | 50 | * |
| | 20 | 9.679670 | 38 | 9.736069 | 50 | 0.263931 | 9.943601 | 11 | 40 | 39 |
| | 30 | 9.679708 | 39 | 9.736119 | 50 | 0.263881 | 9.943589 | 12 | 30 | 13.9 |
| | 40 | 9.679747 | 39 | 9.736169 | 50 | 0.263831 | 9.943578 | 11 | 20 | 7.8 |
| | 50 | 9.679786 | 38 | 9.736219 | 51 | 0.263781 | 9.943566 | 12 | 10 | 311.7 |
| 35 | 0 | 9.679824 | 39 | 9.736269 | 50 | 0.263731 | 9.943555 | 12 | 0 | 415.6 |
| | 10 | 9.679863 | 39 | 9.736319 | 50 | 0.263681 | 9.943543 | 11 | 50 | 519.5 |
| | 20 | 9.679902 | 38 | 9.736370 | 51 | 0.263630 | 9.943532 | 11 | 40 | 623.4 |
| | 30 | 9.679940 | 39 | 9.736420 | 50 | 0.263580 | 9.943521 | 11 | 30 | 727.3 |
| | 40 | 9.679979 | 39 | 9.736470 | 50 | 0.263530 | 9.943509 | 12 | 20 | 831.2 |
| | 50 | 9.680017 | 38 | 9.736520 | 50 | 0.263480 | 9.943498 | 11 | 10 | 935.1 |
| 36 | 0 | 9.680056 | 39 | 9.736570 | 50 | 0.263430 | 9.943486 | 12 | 0 | 24 |
| | 10 | 9.680095 | 39 | 9.736620 | 50 | 0.263380 | 9.943475 | 11 | 50 | 38 |
| | 20 | 9.680133 | 38 | 9.736670 | 50 | 0.263330 | 9.943463 | 12 | 40 | 13.8 |
| | 30 | 9.680172 | 39 | 9.736720 | 50 | 0.263280 | 9.943452 | 11 | 30 | 7.6 |
| | 40 | 9.680210 | 38 | 9.736770 | 50 | 0.263230 | 9.943440 | 12 | 20 | 311.4 |
| | 50 | 9.680249 | 39 | 9.736820 | 50 | 0.263180 | 9.943429 | 11 | 10 | 415.2 |
| 37 | 0 | 9.680288 | 39 | 9.736870 | 51 | 0.263130 | 9.943417 | 12 | 0 | 519.0 |
| | 10 | 9.680326 | 38 | 9.736921 | 50 | 0.263079 | 9.943406 | 11 | 50 | 622.8 |
| | 20 | 9.680365 | 39 | 9.736971 | 50 | 0.263029 | 9.943394 | 12 | 40 | 726.6 |
| | 30 | 9.680403 | 39 | 9.737021 | 50 | 0.262979 | 9.943383 | 11 | 30 | 830.4 |
| | 40 | 9.680442 | 39 | 9.737071 | 50 | 0.262929 | 9.943371 | 12 | 20 | 934.2 |
| | 50 | 9.680481 | 38 | 9.737121 | 50 | 0.262879 | 9.943360 | 11 | 10 | |
| 38 | 0 | 9.680519 | 39 | 9.737171 | 50 | 0.262829 | 9.943348 | 12 | 0 | 22 |
| | 10 | 9.680558 | 39 | 9.737221 | 50 | 0.262779 | 9.943337 | 11 | 50 | * |
| | 20 | 9.680596 | 38 | 9.737271 | 50 | 0.262729 | 9.943325 | 12 | 40 | 12 |
| | 30 | 9.680635 | 39 | 9.737321 | 50 | 0.262679 | 9.943314 | 11 | 30 | 11.2 |
| | 40 | 9.680673 | 38 | 9.737371 | 50 | 0.262629 | 9.943302 | 12 | 20 | 2.4 |
| | 50 | 9.680712 | 39 | 9.737421 | 50 | 0.262579 | 9.943291 | 11 | 10 | 33.6 |
| 39 | 0 | 9.680750 | 39 | 9.737471 | 50 | 0.262529 | 9.943279 | 12 | 0 | 44.8 |
| | 10 | 9.680789 | 39 | 9.737521 | 50 | 0.262479 | 9.943268 | 11 | 50 | 60.0 |
| | 20 | 9.680828 | 38 | 9.737571 | 50 | 0.262429 | 9.943256 | 12 | 40 | 77.2 |
| | 30 | 9.680866 | 39 | 9.737621 | 50 | 0.262379 | 9.943245 | 11 | 30 | 84.4 |
| | 40 | 9.680905 | 38 | 9.737671 | 50 | 0.262329 | 9.943233 | 12 | 20 | 96.6 |
| | 50 | 9.680943 | 39 | 9.737721 | 50 | 0.262279 | 9.943222 | 11 | 10 | 10.8 |
| 40 | 0 | 9.680982 | 39 | 9.737771 | 50 | 0.262229 | 9.943210 | 12 | 0 | 20 |

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | | |
|--------|----|-----|----------|------|----------|------|----------|----------|----|----|----|
| 50 | 40 | 0 | 9.680982 | 38 | 9.737771 | 50 | 0.262229 | 9.943210 | 11 | 0 | 20 |
| 1 5.0 | | 10 | 9.681020 | 39 | 9.737821 | 50 | 0.262179 | 9.943199 | 12 | 50 | |
| 2 10.0 | | 20 | 9.681059 | 38 | 9.737871 | 50 | 0.262129 | 9.943187 | 11 | 40 | |
| 3 15.0 | | 30 | 9.681097 | 38 | 9.737921 | 50 | 0.262079 | 9.943176 | 12 | 30 | |
| 4 20.0 | | 40 | 9.681136 | 38 | 9.737971 | 50 | 0.262029 | 9.943164 | 12 | 20 | |
| 5 25.0 | | 50 | 9.681174 | 38 | 9.738021 | 50 | 0.261979 | 9.943153 | 12 | 10 | |
| 6 30.0 | 41 | 0 | 9.681213 | 38 | 9.738071 | 50 | 0.261929 | 9.943141 | 11 | 0 | 19 |
| 7 35.0 | | 10 | 9.681251 | 39 | 9.738121 | 50 | 0.261879 | 9.943130 | 12 | 50 | |
| 8 40.0 | | 20 | 9.681290 | 39 | 9.738171 | 50 | 0.261829 | 9.943118 | 11 | 40 | |
| 9 45.0 | | 30 | 9.681328 | 38 | 9.738221 | 50 | 0.261779 | 9.943107 | 12 | 30 | |
| | | 40 | 9.681366 | 38 | 9.738271 | 50 | 0.261729 | 9.943095 | 12 | 20 | |
| | | 50 | 9.681405 | 39 | 9.738321 | 50 | 0.261679 | 9.943083 | 11 | 10 | |
| 49 | 42 | 0 | 9.681443 | 39 | 9.738371 | 50 | 0.261629 | 9.943072 | 12 | 0 | 18 |
| 1 4.9 | | 10 | 9.681482 | 39 | 9.738421 | 50 | 0.261579 | 9.943060 | 11 | 50 | |
| 2 9.8 | | 20 | 9.681520 | 38 | 9.738471 | 50 | 0.261529 | 9.943049 | 12 | 40 | |
| 3 14.7 | | 30 | 9.681559 | 38 | 9.738521 | 50 | 0.261479 | 9.943037 | 11 | 30 | |
| 4 19.6 | | 40 | 9.681597 | 38 | 9.738571 | 50 | 0.261429 | 9.943026 | 12 | 20 | |
| 5 24.5 | | 50 | 9.681636 | 39 | 9.738621 | 50 | 0.261379 | 9.943014 | 11 | 10 | |
| 6 29.4 | 43 | 0 | 9.681674 | 39 | 9.738671 | 50 | 0.261329 | 9.943003 | 12 | 0 | 17 |
| 7 34.3 | | 10 | 9.681713 | 38 | 9.738721 | 50 | 0.261279 | 9.942991 | 11 | 50 | |
| 8 39.2 | | 20 | 9.681751 | 38 | 9.738771 | 50 | 0.261229 | 9.942980 | 12 | 40 | |
| 9 44.1 | | 30 | 9.681789 | 38 | 9.738821 | 50 | 0.261179 | 9.942968 | 11 | 30 | |
| * | | 40 | 9.681828 | 39 | 9.738871 | 50 | 0.261129 | 9.942957 | 12 | 20 | |
| | | 50 | 9.681866 | 38 | 9.738921 | 50 | 0.261079 | 9.942945 | 11 | 10 | |
| 39 | 44 | 0 | 9.681905 | 39 | 9.738971 | 50 | 0.261029 | 9.942934 | 12 | 0 | 16 |
| 1 3.9 | | 10 | 9.681943 | 38 | 9.739021 | 50 | 0.260979 | 9.942922 | 11 | 50 | |
| 2 7.8 | | 20 | 9.681981 | 38 | 9.739071 | 50 | 0.260929 | 9.942910 | 12 | 40 | |
| 3 11.7 | | 30 | 9.682020 | 38 | 9.739121 | 50 | 0.260879 | 9.942899 | 11 | 30 | |
| 4 15.6 | | 40 | 9.682058 | 38 | 9.739171 | 50 | 0.260829 | 9.942887 | 12 | 20 | |
| 5 19.5 | | 50 | 9.682097 | 39 | 9.739221 | 50 | 0.260779 | 9.942876 | 11 | 10 | |
| 6 23.4 | 45 | 0 | 9.682135 | 38 | 9.739271 | 50 | 0.260729 | 9.942864 | 11 | 0 | 15 |
| 7 27.3 | | 10 | 9.682173 | 39 | 9.739321 | 50 | 0.260679 | 9.942853 | 12 | 50 | |
| 8 31.2 | | 20 | 9.682212 | 39 | 9.739371 | 49 | 0.260629 | 9.942841 | 11 | 40 | |
| 9 35.1 | | 30 | 9.682250 | 38 | 9.739420 | 50 | 0.260580 | 9.942830 | 12 | 30 | |
| | | 40 | 9.682288 | 38 | 9.739470 | 50 | 0.260530 | 9.942818 | 12 | 20 | |
| | | 50 | 9.682327 | 39 | 9.739520 | 50 | 0.260480 | 9.942806 | 11 | 10 | |
| 38 | 46 | 0 | 9.682365 | 38 | 9.739570 | 50 | 0.260430 | 9.942795 | 12 | 0 | 14 |
| 1 3.8 | | 10 | 9.682403 | 39 | 9.739620 | 50 | 0.260380 | 9.942783 | 11 | 50 | |
| 2 7.6 | | 20 | 9.682442 | 39 | 9.739670 | 50 | 0.260330 | 9.942772 | 12 | 40 | |
| 3 11.4 | | 30 | 9.682480 | 38 | 9.739720 | 50 | 0.260280 | 9.942760 | 11 | 30 | |
| 4 15.2 | | 40 | 9.682519 | 39 | 9.739770 | 50 | 0.260230 | 9.942749 | 12 | 20 | |
| 5 19.0 | | 50 | 9.682557 | 38 | 9.739820 | 50 | 0.260180 | 9.942737 | 11 | 10 | |
| 6 22.8 | 47 | 0 | 9.682595 | 38 | 9.739870 | 50 | 0.260130 | 9.942726 | 12 | 0 | 13 |
| 7 26.6 | | 10 | 9.682633 | 39 | 9.739920 | 50 | 0.260080 | 9.942714 | 11 | 50 | |
| 8 30.4 | | 20 | 9.682672 | 39 | 9.739969 | 49 | 0.260031 | 9.942702 | 12 | 40 | |
| 9 34.2 | | 30 | 9.682710 | 38 | 9.740019 | 50 | 0.259981 | 9.942691 | 11 | 30 | |
| * | | 40 | 9.682748 | 38 | 9.740069 | 50 | 0.259931 | 9.942679 | 12 | 20 | |
| | | 50 | 9.682787 | 39 | 9.740119 | 50 | 0.259881 | 9.942668 | 11 | 10 | |
| 11 | 48 | 0 | 9.682825 | 38 | 9.740169 | 50 | 0.259831 | 9.942656 | 11 | 0 | 12 |
| 1 11.1 | | 10 | 9.682863 | 39 | 9.740219 | 50 | 0.259781 | 9.942645 | 12 | 50 | |
| 2 22.2 | | 20 | 9.682902 | 39 | 9.740269 | 50 | 0.259731 | 9.942633 | 12 | 40 | |
| 3 33.3 | | 30 | 9.682940 | 38 | 9.740319 | 50 | 0.259681 | 9.942621 | 11 | 30 | |
| 4 44.4 | | 40 | 9.682978 | 38 | 9.740368 | 49 | 0.259632 | 9.942610 | 12 | 20 | |
| 5 55.5 | | 50 | 9.683016 | 38 | 9.740418 | 50 | 0.259582 | 9.942598 | 12 | 10 | |
| 6 66.6 | 49 | 0 | 9.683055 | 39 | 9.740468 | 50 | 0.259532 | 9.942587 | 11 | 0 | 11 |
| 7 77.7 | | 10 | 9.683093 | 38 | 9.740518 | 50 | 0.259482 | 9.942575 | 12 | 50 | |
| 8 88.8 | | 20 | 9.683131 | 39 | 9.740568 | 50 | 0.259432 | 9.942563 | 11 | 40 | |
| 9 99.9 | | 30 | 9.683170 | 39 | 9.740618 | 50 | 0.259382 | 9.942552 | 11 | 30 | |
| | | 40 | 9.683208 | 38 | 9.740668 | 50 | 0.259332 | 9.942540 | 12 | 20 | |
| | | 50 | 9.683246 | 38 | 9.740717 | 49 | 0.259282 | 9.942529 | 11 | 10 | |
| | 50 | 0 | 9.683284 | 38 | 9.740767 | 50 | 0.259233 | 9.942517 | 12 | 0 | 10 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Ces | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.683284 | | 9.740767 | | 0.259233 | 9.942517 | | 0 | 10 |
| | 10 | 9.683323 | 39 | 9.740817 | 50 | 0.259183 | 9.942506 | 11 | 0 | |
| | 20 | 9.683361 | 38 | 9.740867 | 50 | 0.259133 | 9.942494 | 12 | 50 | |
| | 30 | 9.683399 | 38 | 9.740917 | 50 | 0.259083 | 9.942482 | 12 | 40 | |
| | 40 | 9.683437 | 38 | 9.740967 | 50 | 0.259033 | 9.942471 | 11 | 30 | |
| | 50 | 9.683475 | 38 | 9.741016 | 49 | 0.258984 | 9.942459 | 12 | 20 | |
| 51 | 0 | 9.683514 | 39 | 9.741066 | 50 | 0.258934 | 9.942448 | 11 | 10 | |
| | 10 | 9.683552 | 38 | 9.741116 | 50 | 0.258884 | 9.942436 | 12 | 0 | |
| | 20 | 9.683590 | 38 | 9.741166 | 50 | 0.258834 | 9.942424 | 12 | 50 | |
| | 30 | 9.683628 | 38 | 9.741216 | 50 | 0.258784 | 9.942413 | 11 | 40 | |
| | 40 | 9.683667 | 39 | 9.741265 | 49 | 0.258735 | 9.942401 | 12 | 30 | |
| | 50 | 9.683705 | 38 | 9.741315 | 50 | 0.258685 | 9.942390 | 11 | 20 | |
| 52 | 0 | 9.683743 | 38 | 9.741365 | 50 | 0.258635 | 9.942378 | 12 | 10 | |
| | 10 | 9.683781 | 38 | 9.741415 | 50 | 0.258585 | 9.942366 | 12 | 0 | |
| | 20 | 9.683819 | 39 | 9.741465 | 50 | 0.258535 | 9.942355 | 11 | 50 | |
| | 30 | 9.683858 | 39 | 9.741514 | 49 | 0.258486 | 9.942343 | 12 | 40 | |
| | 40 | 9.683896 | 38 | 9.741564 | 50 | 0.258436 | 9.942331 | 12 | 30 | |
| | 50 | 9.683934 | 38 | 9.741614 | 50 | 0.258386 | 9.942320 | 11 | 20 | |
| 53 | 0 | 9.683972 | 38 | 9.741664 | 50 | 0.258336 | 9.942308 | 12 | 10 | |
| | 10 | 9.684010 | 38 | 9.741714 | 50 | 0.258286 | 9.942297 | 11 | 0 | |
| | 20 | 9.684048 | 39 | 9.741763 | 49 | 0.258237 | 9.942285 | 12 | 50 | |
| | 30 | 9.684087 | 39 | 9.741813 | 50 | 0.258187 | 9.942273 | 12 | 40 | |
| | 40 | 9.684125 | 38 | 9.741863 | 50 | 0.258137 | 9.942262 | 11 | 30 | |
| | 50 | 9.684163 | 38 | 9.741913 | 50 | 0.258087 | 9.942250 | 12 | 20 | |
| 54 | 0 | 9.684201 | 38 | 9.741962 | 49 | 0.258038 | 9.942239 | 11 | 10 | |
| | 10 | 9.684239 | 38 | 9.742012 | 50 | 0.257988 | 9.942227 | 12 | 0 | |
| | 20 | 9.684277 | 38 | 9.742062 | 50 | 0.257938 | 9.942215 | 12 | 50 | |
| | 30 | 9.684315 | 38 | 9.742112 | 50 | 0.257888 | 9.942204 | 11 | 40 | |
| | 40 | 9.684353 | 39 | 9.742161 | 49 | 0.257839 | 9.942192 | 12 | 30 | |
| | 50 | 9.684392 | 38 | 9.742211 | 50 | 0.257789 | 9.942180 | 11 | 20 | |
| 55 | 0 | 9.684430 | 38 | 9.742261 | 50 | 0.257739 | 9.942169 | 12 | 10 | |
| | 10 | 9.684468 | 38 | 9.742311 | 50 | 0.257689 | 9.942157 | 11 | 0 | |
| | 20 | 9.684506 | 38 | 9.742360 | 49 | 0.257640 | 9.942146 | 12 | 50 | |
| | 30 | 9.684544 | 38 | 9.742410 | 50 | 0.257590 | 9.942134 | 12 | 40 | |
| | 40 | 9.684582 | 38 | 9.742460 | 50 | 0.257540 | 9.942122 | 11 | 30 | |
| | 50 | 9.684620 | 38 | 9.742510 | 50 | 0.257490 | 9.942111 | 12 | 20 | |
| 56 | 0 | 9.684658 | 38 | 9.742559 | 49 | 0.257441 | 9.942099 | 12 | 10 | |
| | 10 | 9.684696 | 38 | 9.742609 | 50 | 0.257391 | 9.942087 | 11 | 0 | |
| | 20 | 9.684735 | 39 | 9.742659 | 50 | 0.257341 | 9.942076 | 12 | 50 | |
| | 30 | 9.684773 | 38 | 9.742709 | 50 | 0.257291 | 9.942064 | 12 | 40 | |
| | 40 | 9.684811 | 38 | 9.742758 | 49 | 0.257242 | 9.942052 | 11 | 30 | |
| | 50 | 9.684849 | 38 | 9.742808 | 50 | 0.257192 | 9.942041 | 12 | 20 | |
| 57 | 0 | 9.684887 | 38 | 9.742858 | 50 | 0.257142 | 9.942029 | 12 | 10 | |
| | 10 | 9.684925 | 38 | 9.742907 | 49 | 0.257093 | 9.942017 | 11 | 0 | |
| | 20 | 9.684963 | 38 | 9.742957 | 50 | 0.257043 | 9.942006 | 12 | 50 | |
| | 30 | 9.685001 | 38 | 9.743007 | 50 | 0.256993 | 9.941994 | 12 | 40 | |
| | 40 | 9.685039 | 38 | 9.743056 | 49 | 0.256944 | 9.941983 | 11 | 30 | |
| | 50 | 9.685077 | 38 | 9.743106 | 50 | 0.256894 | 9.941971 | 12 | 20 | |
| 58 | 0 | 9.685115 | 38 | 9.743156 | 50 | 0.256844 | 9.941959 | 12 | 10 | |
| | 10 | 9.685153 | 38 | 9.743206 | 50 | 0.256794 | 9.941948 | 11 | 0 | |
| | 20 | 9.685191 | 38 | 9.743255 | 49 | 0.256745 | 9.941936 | 12 | 50 | |
| | 30 | 9.685229 | 38 | 9.743305 | 50 | 0.256695 | 9.941924 | 12 | 40 | |
| | 40 | 9.685267 | 38 | 9.743355 | 50 | 0.256645 | 9.941913 | 11 | 30 | |
| | 50 | 9.685305 | 38 | 9.743404 | 49 | 0.256596 | 9.941901 | 12 | 20 | |
| 59 | 0 | 9.685343 | 38 | 9.743454 | 50 | 0.256546 | 9.941889 | 12 | 10 | |
| | 10 | 9.685381 | 38 | 9.743504 | 50 | 0.256496 | 9.941878 | 11 | 0 | |
| | 20 | 9.685419 | 38 | 9.743553 | 49 | 0.256447 | 9.941866 | 12 | 50 | |
| | 30 | 9.685457 | 38 | 9.743603 | 50 | 0.256397 | 9.941854 | 12 | 40 | |
| | 40 | 9.685495 | 38 | 9.743653 | 50 | 0.256347 | 9.941843 | 11 | 30 | |
| | 50 | 9.685533 | 38 | 9.743702 | 49 | 0.256298 | 9.941831 | 12 | 20 | |
| 60 | 0 | 9.685571 | 38 | 9.743752 | 50 | 0.256248 | 9.941819 | 12 | 10 | |
| | | | | | | | | | 0 | |

50
1 5.0
2 10.0
3 15.0
4 20.0
5 25.0
6 30.0
7 35.0
8 40.0
9 45.0

49
1 4.9
2 9.8
3 14.7
4 19.6
5 24.5
6 29.4
7 34.3
8 39.2
9 44.1

*

39
1 3.9
2 7.8
3 11.7
4 15.6
5 19.5
6 23.4
7 27.3
8 31.2
9 35.1

38
1 3.8
2 7.6
3 11.4
4 15.2
5 19.0
6 22.8
7 26.6
8 30.4
9 34.2

*

12
1 1.2
2 2.4
3 3.6
4 4.8
5 6.0
6 7.2
7 8.4
8 9.6
9 10.8

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|---|-----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.685571 | 38 | 9.743752 | 50 | 0.256248 | 9.941819 | 11 | 0 | 60 |
| 1 | 50 | 9.685609 | 38 | 9.743802 | 49 | 0.256198 | 9.941808 | 12 | 50 | |
| 2 | 100 | 9.685647 | 38 | 9.743851 | 49 | 0.256149 | 9.941796 | 12 | 40 | |
| 3 | 150 | 9.685685 | 38 | 9.743901 | 50 | 0.256099 | 9.941784 | 12 | 30 | |
| 4 | 200 | 9.685723 | 38 | 9.743951 | 49 | 0.256049 | 9.941773 | 12 | 20 | |
| 5 | 250 | 9.685761 | 38 | 9.744000 | 50 | 0.256000 | 9.941761 | 12 | 10 | |
| 6 | 300 | 9.685799 | 38 | 9.744050 | 49 | 0.255950 | 9.941749 | 12 | 0 | 59 |
| 7 | 350 | 9.685837 | 38 | 9.744099 | 50 | 0.255901 | 9.941738 | 12 | 50 | |
| 8 | 400 | 9.685875 | 38 | 9.744149 | 50 | 0.255851 | 9.941726 | 12 | 40 | |
| 9 | 450 | 9.685913 | 38 | 9.744199 | 49 | 0.255801 | 9.941714 | 12 | 30 | |
| | 500 | 9.685951 | 38 | 9.744248 | 50 | 0.255752 | 9.941702 | 12 | 20 | |
| | 550 | 9.685989 | 38 | 9.744298 | 50 | 0.255702 | 9.941691 | 12 | 10 | |
| 1 | 0 | 9.686027 | 38 | 9.744348 | 49 | 0.255652 | 9.941679 | 12 | 0 | 58 |
| 2 | 10 | 9.686065 | 38 | 9.744397 | 50 | 0.255603 | 9.941667 | 12 | 50 | |
| 3 | 20 | 9.686103 | 38 | 9.744447 | 49 | 0.255553 | 9.941656 | 12 | 40 | |
| 4 | 30 | 9.686141 | 38 | 9.744496 | 50 | 0.255504 | 9.941644 | 12 | 30 | |
| 5 | 40 | 9.686178 | 38 | 9.744546 | 50 | 0.255454 | 9.941632 | 12 | 20 | |
| 6 | 50 | 9.686216 | 38 | 9.744595 | 49 | 0.255404 | 9.941621 | 12 | 10 | |
| 7 | 0 | 9.686254 | 38 | 9.744645 | 50 | 0.255355 | 9.941609 | 12 | 0 | 57 |
| 8 | 10 | 9.686292 | 38 | 9.744695 | 49 | 0.255305 | 9.941597 | 12 | 50 | |
| 9 | 20 | 9.686330 | 38 | 9.744744 | 50 | 0.255256 | 9.941586 | 12 | 40 | |
| | 30 | 9.686368 | 38 | 9.744794 | 50 | 0.255206 | 9.941574 | 12 | 30 | |
| | 40 | 9.686406 | 38 | 9.744844 | 49 | 0.255156 | 9.941562 | 12 | 20 | |
| | 50 | 9.686444 | 38 | 9.744893 | 50 | 0.255107 | 9.941550 | 12 | 10 | |
| | 550 | 9.686482 | 38 | 9.744943 | 49 | 0.255057 | 9.941539 | 12 | 0 | 56 |
| 1 | 10 | 9.686519 | 38 | 9.744992 | 50 | 0.255008 | 9.941527 | 12 | 50 | |
| 2 | 20 | 9.686557 | 38 | 9.745042 | 50 | 0.254958 | 9.941515 | 12 | 40 | |
| 3 | 30 | 9.686595 | 38 | 9.745092 | 49 | 0.254908 | 9.941504 | 12 | 30 | |
| 4 | 40 | 9.686633 | 38 | 9.745141 | 50 | 0.254859 | 9.941492 | 12 | 20 | |
| 5 | 50 | 9.686671 | 38 | 9.745191 | 49 | 0.254809 | 9.941480 | 12 | 10 | |
| 6 | 0 | 9.686709 | 38 | 9.745240 | 50 | 0.254760 | 9.941469 | 12 | 0 | 55 |
| 7 | 10 | 9.686747 | 38 | 9.745290 | 49 | 0.254711 | 9.941457 | 12 | 50 | |
| 8 | 20 | 9.686785 | 38 | 9.745339 | 50 | 0.254661 | 9.941445 | 12 | 40 | |
| 9 | 30 | 9.686822 | 38 | 9.745389 | 50 | 0.254611 | 9.941433 | 12 | 30 | |
| | 40 | 9.686860 | 38 | 9.745439 | 49 | 0.254561 | 9.941422 | 12 | 20 | |
| | 50 | 9.686898 | 38 | 9.745488 | 50 | 0.254512 | 9.941410 | 12 | 10 | |
| | 550 | 9.686936 | 38 | 9.745538 | 49 | 0.254462 | 9.941398 | 12 | 0 | 54 |
| 1 | 10 | 9.686974 | 38 | 9.745587 | 50 | 0.254413 | 9.941387 | 12 | 50 | |
| 2 | 20 | 9.687012 | 38 | 9.745637 | 50 | 0.254363 | 9.941375 | 12 | 40 | </ |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.687843 | 37 | 9.746726 | 49 | 0.253274 | 9.941117 | 12 | 0 | 50 |
| | 10 | 9.687880 | 38 | 9.746775 | 50 | 0.253223 | 9.941105 | 12 | 50 | |
| | 20 | 9.687918 | 38 | 9.746825 | 49 | 0.253175 | 9.941093 | 12 | 40 | |
| | 30 | 9.687956 | 37 | 9.746874 | 50 | 0.253126 | 9.941081 | 12 | 30 | |
| | 40 | 9.687993 | 38 | 9.746924 | 50 | 0.253076 | 9.941070 | 12 | 20 | |
| | 50 | 9.688031 | 38 | 9.746973 | 49 | 0.253027 | 9.941058 | 12 | 10 | |
| 11 | 0 | 9.688069 | 37 | 9.747023 | 50 | 0.252977 | 9.941046 | 12 | 0 | 49 |
| | 10 | 9.688106 | 38 | 9.747072 | 49 | 0.252928 | 9.941034 | 12 | 50 | |
| | 20 | 9.688144 | 38 | 9.747122 | 50 | 0.252878 | 9.941023 | 12 | 40 | |
| | 30 | 9.688182 | 38 | 9.747171 | 49 | 0.252829 | 9.941011 | 12 | 30 | |
| | 40 | 9.688220 | 37 | 9.747221 | 50 | 0.252779 | 9.940999 | 12 | 20 | |
| | 50 | 9.688257 | 38 | 9.747270 | 49 | 0.252729 | 9.940987 | 12 | 10 | |
| 12 | 0 | 9.688295 | 38 | 9.747319 | 50 | 0.252681 | 9.940975 | 12 | 0 | 48 |
| | 10 | 9.688333 | 37 | 9.747369 | 49 | 0.252631 | 9.940964 | 12 | 50 | |
| | 20 | 9.688370 | 38 | 9.747418 | 50 | 0.252582 | 9.940952 | 12 | 40 | |
| | 30 | 9.688408 | 38 | 9.747468 | 49 | 0.252532 | 9.940940 | 12 | 30 | |
| | 40 | 9.688446 | 37 | 9.747517 | 50 | 0.252483 | 9.940928 | 12 | 20 | |
| | 50 | 9.688483 | 38 | 9.747567 | 49 | 0.252433 | 9.940917 | 12 | 10 | |
| 13 | 0 | 9.688521 | 38 | 9.747616 | 50 | 0.252384 | 9.940905 | 12 | 0 | 47 |
| | 10 | 9.688559 | 37 | 9.747665 | 49 | 0.252335 | 9.940893 | 12 | 50 | |
| | 20 | 9.688596 | 38 | 9.747715 | 50 | 0.252285 | 9.940881 | 12 | 40 | |
| | 30 | 9.688634 | 38 | 9.747764 | 49 | 0.252236 | 9.940870 | 12 | 30 | |
| | 40 | 9.688671 | 38 | 9.747814 | 50 | 0.252186 | 9.940858 | 12 | 20 | |
| | 50 | 9.688709 | 38 | 9.747863 | 49 | 0.252137 | 9.940846 | 12 | 10 | |
| 14 | 0 | 9.688747 | 37 | 9.747913 | 50 | 0.252087 | 9.940834 | 12 | 0 | 46 |
| | 10 | 9.688784 | 38 | 9.747962 | 49 | 0.252038 | 9.940822 | 12 | 50 | |
| | 20 | 9.688822 | 38 | 9.748011 | 49 | 0.251989 | 9.940811 | 12 | 40 | |
| | 30 | 9.688860 | 37 | 9.748061 | 50 | 0.251939 | 9.940799 | 12 | 30 | |
| | 40 | 9.688897 | 38 | 9.748110 | 49 | 0.251890 | 9.940787 | 12 | 20 | |
| | 50 | 9.688935 | 37 | 9.748160 | 50 | 0.251840 | 9.940775 | 12 | 10 | |
| 15 | 0 | 9.688972 | 38 | 9.748209 | 49 | 0.251791 | 9.940763 | 12 | 0 | 45 |
| | 10 | 9.689010 | 38 | 9.748258 | 50 | 0.251742 | 9.940752 | 12 | 50 | |
| | 20 | 9.689048 | 37 | 9.748308 | 49 | 0.251692 | 9.940740 | 12 | 40 | |
| | 30 | 9.689085 | 38 | 9.748357 | 50 | 0.251643 | 9.940728 | 12 | 30 | |
| | 40 | 9.689123 | 37 | 9.748406 | 49 | 0.251594 | 9.940716 | 12 | 20 | |
| | 50 | 9.689160 | 38 | 9.748456 | 50 | 0.251544 | 9.940704 | 12 | 10 | |
| 16 | 0 | 9.689198 | 37 | 9.748505 | 49 | 0.251495 | 9.940693 | 12 | 0 | 44 |
| | 10 | 9.689235 | 38 | 9.748555 | 50 | 0.251445 | 9.940681 | 12 | 50 | |
| | 20 | 9.689273 | 38 | 9.748604 | 49 | 0.251396 | 9.940669 | 12 | 40 | |
| | 30 | 9.689311 | 38 | 9.748653 | 49 | 0.251347 | 9.940657 | 12 | 30 | |
| | 40 | 9.689348 | 37 | 9.748703 | 50 | 0.251297 | 9.940645 | 12 | 20 | |
| | 50 | 9.689386 | 38 | 9.748752 | 49 | 0.251248 | 9.940634 | 12 | 10 | |
| 17 | 0 | 9.689423 | 37 | 9.748801 | 49 | 0.251199 | 9.940622 | 12 | 0 | 43 |
| | 10 | 9.689461 | 38 | 9.748851 | 50 | 0.251149 | 9.940610 | 12 | 50 | |
| | 20 | 9.689498 | 37 | 9.748900 | 49 | 0.251100 | 9.940598 | 12 | 40 | |
| | 30 | 9.689536 | 38 | 9.748949 | 49 | 0.251051 | 9.940586 | 12 | 30 | |
| | 40 | 9.689573 | 37 | 9.748999 | 50 | 0.251001 | 9.940575 | 12 | 20 | |
| | 50 | 9.689611 | 38 | 9.749048 | 49 | 0.250952 | 9.940563 | 12 | 10 | |
| 18 | 0 | 9.689648 | 37 | 9.749097 | 49 | 0.250903 | 9.940551 | 12 | 0 | 42 |
| | 10 | 9.689686 | 38 | 9.749147 | 50 | 0.250853 | 9.940539 | 12 | 50 | |
| | 20 | 9.689723 | 37 | 9.749196 | 49 | 0.250804 | 9.940527 | 12 | 40 | |
| | 30 | 9.689761 | 38 | 9.749245 | 49 | 0.250755 | 9.940516 | 12 | 30 | |
| | 40 | 9.689798 | 37 | 9.749295 | 50 | 0.250705 | 9.940504 | 12 | 20 | |
| | 50 | 9.689836 | 38 | 9.749344 | 49 | 0.250656 | 9.940492 | 12 | 10 | |
| 19 | 0 | 9.689873 | 37 | 9.749393 | 49 | 0.250607 | 9.940480 | 12 | 0 | 41 |
| | 10 | 9.689911 | 38 | 9.749443 | 50 | 0.250557 | 9.940468 | 12 | 50 | |
| | 20 | 9.689948 | 37 | 9.749492 | 49 | 0.250508 | 9.940456 | 12 | 40 | |
| | 30 | 9.689986 | 38 | 9.749541 | 49 | 0.250459 | 9.940445 | 12 | 30 | |
| | 40 | 9.690023 | 37 | 9.749591 | 50 | 0.250409 | 9.940433 | 12 | 20 | |
| | 50 | 9.690061 | 38 | 9.749640 | 49 | 0.250360 | 9.940421 | 12 | 10 | |
| 20 | 0 | 9.690098 | 37 | 9.749689 | 49 | 0.250311 | 9.940409 | 12 | 0 | 40 |

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| | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | | |
|--------|----|-----|----------|------|----------|------|----------|----------|----|----|----|
| 50 | 20 | 0 | 9.690098 | 38 | 9.749689 | 50 | 0.250311 | 9.940409 | 12 | 0 | 40 |
| 1 5.0 | 10 | 10 | 9.690136 | 37 | 9.749739 | 49 | 0.250261 | 9.940397 | 12 | 50 | |
| 2 10.0 | 20 | 20 | 9.690173 | 37 | 9.749788 | 49 | 0.250212 | 9.940385 | 11 | 40 | |
| 3 15.0 | 30 | 30 | 9.690211 | 38 | 9.749837 | 49 | 0.250163 | 9.940374 | 12 | 30 | |
| 4 20.0 | 40 | 40 | 9.690248 | 38 | 9.749886 | 50 | 0.250114 | 9.940362 | 12 | 20 | |
| 5 25.0 | 50 | 50 | 9.690286 | 37 | 9.749936 | 49 | 0.250064 | 9.940350 | 12 | 10 | |
| 6 30.0 | 21 | 0 | 9.690323 | 37 | 9.749985 | 49 | 0.250015 | 9.940338 | 12 | 0 | 39 |
| 7 35.0 | 10 | 10 | 9.690361 | 38 | 9.750034 | 50 | 0.249966 | 9.940326 | 12 | 50 | |
| 8 40.0 | 20 | 20 | 9.690398 | 37 | 9.750084 | 49 | 0.249916 | 9.940314 | 11 | 40 | |
| 9 45.0 | 30 | 30 | 9.690435 | 38 | 9.750133 | 49 | 0.249867 | 9.940303 | 12 | 30 | |
| | 40 | 40 | 9.690473 | 37 | 9.750182 | 49 | 0.249818 | 9.940291 | 12 | 20 | |
| | 50 | 50 | 9.690510 | 38 | 9.750231 | 50 | 0.249769 | 9.940279 | 12 | 10 | |
| 1 49 | 22 | 0 | 9.690548 | 37 | 9.750281 | 49 | 0.249719 | 9.940267 | 12 | 0 | 38 |
| 2 4.9 | 10 | 10 | 9.690585 | 37 | 9.750330 | 49 | 0.249670 | 9.940255 | 12 | 50 | |
| 3 9.8 | 20 | 20 | 9.690622 | 37 | 9.750379 | 49 | 0.249621 | 9.940243 | 12 | 40 | |
| 4 14.7 | 30 | 30 | 9.690660 | 38 | 9.750428 | 49 | 0.249572 | 9.940231 | 11 | 30 | |
| 5 19.6 | 40 | 40 | 9.690697 | 38 | 9.750478 | 49 | 0.249522 | 9.940220 | 12 | 20 | |
| 6 24.5 | 50 | 50 | 9.690735 | 37 | 9.750527 | 49 | 0.249473 | 9.940208 | 12 | 10 | |
| 7 29.4 | 23 | 0 | 9.690772 | 37 | 9.750576 | 49 | 0.249424 | 9.940196 | 12 | 0 | 37 |
| 8 34.3 | 10 | 10 | 9.690809 | 38 | 9.750625 | 49 | 0.249375 | 9.940184 | 12 | 50 | |
| 9 39.2 | 20 | 20 | 9.690847 | 37 | 9.750675 | 50 | 0.249325 | 9.940172 | 12 | 40 | |
| 1 44.1 | 30 | 30 | 9.690884 | 38 | 9.750724 | 49 | 0.249276 | 9.940160 | 12 | 30 | |
| | 40 | 40 | 9.690922 | 37 | 9.750773 | 49 | 0.249227 | 9.940148 | 11 | 20 | |
| * | 50 | 50 | 9.690959 | 37 | 9.750822 | 49 | 0.249178 | 9.940137 | 12 | 10 | |
| | 24 | 0 | 9.690996 | 38 | 9.750872 | 50 | 0.249128 | 9.940125 | 12 | 0 | 36 |
| 1 38 | 10 | 10 | 9.691034 | 37 | 9.750921 | 49 | 0.249079 | 9.940113 | 12 | 50 | |
| 2 3.8 | 20 | 20 | 9.691071 | 37 | 9.750970 | 49 | 0.249030 | 9.940101 | 12 | 40 | |
| 3 7.6 | 30 | 30 | 9.691108 | 38 | 9.751019 | 49 | 0.248981 | 9.940089 | 12 | 30 | |
| 4 11.4 | 40 | 40 | 9.691146 | 37 | 9.751069 | 50 | 0.248931 | 9.940077 | 12 | 20 | |
| 5 15.2 | 50 | 50 | 9.691183 | 37 | 9.751118 | 49 | 0.248882 | 9.940065 | 11 | 10 | |
| 6 19.0 | 25 | 0 | 9.691220 | 38 | 9.751167 | 49 | 0.248833 | 9.940054 | 12 | 0 | 35 |
| 7 22.8 | 10 | 10 | 9.691258 | 37 | 9.751216 | 49 | 0.248784 | 9.940042 | 12 | 50 | |
| 8 26.6 | 20 | 20 | 9.691295 | 37 | 9.751265 | 49 | 0.248735 | 9.940030 | 12 | 40 | |
| 9 30.4 | 30 | 30 | 9.691332 | 38 | 9.751315 | 50 | 0.248685 | 9.940018 | 12 | 30 | |
| 1 34.2 | 40 | 40 | 9.691370 | 38 | 9.751364 | 49 | 0.248636 | 9.940006 | 12 | 20 | |
| | 50 | 50 | 9.691407 | 37 | 9.751413 | 49 | 0.248587 | 9.939994 | 12 | 10 | |
| | 26 | 0 | 9.691444 | 38 | 9.751462 | 49 | 0.248538 | 9.939982 | 12 | 0 | 34 |
| 1 37 | 10 | 10 | 9.691482 | 37 | 9.751511 | 49 | 0.248489 | 9.939970 | 12 | 50 | |
| 2 3.7 | 20 | 20 | 9.691519 | 37 | 9.751561 | 50 | 0.248439 | 9.939959 | 12 | 40 | |
| 3 7.4 | 30 | 30 | 9.691556 | 38 | 9.751610 | 49 | 0.248390 | 9.939947 | 12 | 30 | |
| 4 11.1 | 40 | 40 | 9.691594 | 37 | 9.751659 | 49 | 0.248341 | 9.939935 | 12 | 20 | |
| 5 14.8 | 50 | 50 | 9.691631 | 37 | 9.751708 | 49 | 0.248292 | 9.939923 | 12 | 10 | |
| 6 18.5 | 27 | 0 | 9.691668 | 38 | 9.751757 | 49 | 0.248243 | 9.939911 | 12 | 0 | 33 |
| 7 22.2 | 10 | 10 | 9.691706 | 37 | 9.751806 | 49 | 0.248194 | 9.939899 | 12 | 50 | |
| 8 25.9 | 20 | 20 | 9.691743 | 37 | 9.751856 | 50 | 0.248145 | 9.939887 | 12 | 40 | |
| 9 29.6 | 30 | 30 | 9.691780 | 37 | 9.751905 | 49 | 0.248095 | 9.939875 | 12 | 30 | |
| 1 33.3 | 40 | 40 | 9.691817 | 38 | 9.751954 | 49 | 0.248046 | 9.939863 | 12 | 20 | |
| | 50 | 50 | 9.691855 | 37 | 9.752003 | 49 | 0.247997 | 9.939852 | 11 | 10 | |
| * | 28 | 0 | 9.691892 | 37 | 9.752052 | 49 | 0.247948 | 9.939840 | 12 | 0 | 32 |
| 1 37 | 10 | 10 | 9.691929 | 37 | 9.752101 | 49 | 0.247899 | 9.939828 | 12 | 50 | |
| 2 3.7 | 20 | 20 | 9.691966 | 38 | 9.752151 | 50 | 0.247849 | 9.939816 | 12 | 40 | |
| 3 7.4 | 30 | 30 | 9.692004 | 38 | 9.752200 | 49 | 0.247800 | 9.939804 | 12 | 30 | |
| 4 11.1 | 40 | 40 | 9.692041 | 37 | 9.752249 | 49 | 0.247751 | 9.939792 | 12 | 20 | |
| 5 14.8 | 50 | 50 | 9.692078 | 37 | 9.752298 | 49 | 0.247702 | 9.939780 | 12 | 10 | |
| 6 18.5 | 29 | 0 | 9.692115 | 38 | 9.752347 | 49 | 0.247653 | 9.939768 | 12 | 0 | 31 |
| 7 22.2 | 10 | 10 | 9.692153 | 38 | 9.752396 | 49 | 0.247604 | 9.939756 | 12 | 50 | |
| 8 25.9 | 20 | 20 | 9.692190 | 37 | 9.752446 | 50 | 0.247554 | 9.939744 | 11 | 40 | |
| 9 29.6 | 30 | 30 | 9.692227 | 37 | 9.752495 | 49 | 0.247505 | 9.939733 | 12 | 30 | |
| 1 33.3 | 40 | 40 | 9.692264 | 38 | 9.752544 | 49 | 0.247456 | 9.939721 | 12 | 20 | |
| 2 3.7 | 50 | 50 | 9.692302 | 38 | 9.752593 | 49 | 0.247407 | 9.939709 | 12 | 10 | |
| 3 7.4 | 30 | 0 | 9.692339 | 37 | 9.752642 | 49 | 0.247358 | 9.939697 | 12 | 0 | 30 |
| 4 11.1 | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.692339 | 37 | 9.752642 | 49 | 0.247358 | 9.939697 | 12 | 0 | 30 |
| | 10 | 9.692376 | 37 | 9.752691 | 49 | 0.247309 | 9.939685 | 12 | 50 | |
| | 20 | 9.692413 | 37 | 9.752740 | 49 | 0.247260 | 9.939673 | 12 | 40 | |
| | 30 | 9.692450 | 37 | 9.752789 | 49 | 0.247211 | 9.939661 | 12 | 30 | |
| | 40 | 9.692488 | 37 | 9.752839 | 50 | 0.247161 | 9.939649 | 12 | 20 | |
| | 50 | 9.692525 | 37 | 9.752888 | 49 | 0.247112 | 9.939637 | 12 | 10 | |
| 31 | 0 | 9.692562 | 37 | 9.752937 | 49 | 0.247063 | 9.939625 | 12 | 0 | 29 |
| | 10 | 9.692599 | 37 | 9.752986 | 49 | 0.247014 | 9.939613 | 12 | 50 | |
| | 20 | 9.692636 | 37 | 9.753035 | 49 | 0.246965 | 9.939601 | 12 | 40 | |
| | 30 | 9.692674 | 37 | 9.753084 | 49 | 0.246916 | 9.939590 | 12 | 30 | |
| | 40 | 9.692711 | 37 | 9.753133 | 49 | 0.246867 | 9.939578 | 12 | 20 | |
| | 50 | 9.692748 | 37 | 9.753182 | 49 | 0.246818 | 9.939566 | 12 | 10 | |
| 32 | 0 | 9.692785 | 37 | 9.753231 | 49 | 0.246769 | 9.939554 | 12 | 0 | 28 |
| | 10 | 9.692822 | 37 | 9.753280 | 50 | 0.246720 | 9.939542 | 12 | 50 | |
| | 20 | 9.692859 | 37 | 9.753329 | 49 | 0.246670 | 9.939530 | 12 | 40 | |
| | 30 | 9.692897 | 37 | 9.753379 | 49 | 0.246621 | 9.939518 | 12 | 30 | |
| | 40 | 9.692934 | 37 | 9.753428 | 49 | 0.246572 | 9.939506 | 12 | 20 | |
| | 50 | 9.692971 | 37 | 9.753477 | 49 | 0.246523 | 9.939494 | 12 | 10 | |
| 33 | 0 | 9.693008 | 37 | 9.753526 | 49 | 0.246474 | 9.939482 | 12 | 0 | 27 |
| | 10 | 9.693045 | 37 | 9.753575 | 49 | 0.246425 | 9.939470 | 12 | 50 | |
| | 20 | 9.693082 | 37 | 9.753624 | 49 | 0.246376 | 9.939458 | 12 | 40 | |
| | 30 | 9.693119 | 37 | 9.753673 | 49 | 0.246327 | 9.939446 | 12 | 30 | |
| | 40 | 9.693157 | 37 | 9.753722 | 49 | 0.246278 | 9.939434 | 12 | 20 | |
| | 50 | 9.693194 | 37 | 9.753771 | 49 | 0.246229 | 9.939422 | 12 | 10 | |
| 34 | 0 | 9.693231 | 37 | 9.753820 | 49 | 0.246180 | 9.939410 | 12 | 0 | 26 |
| | 10 | 9.693268 | 37 | 9.753869 | 49 | 0.246131 | 9.939399 | 12 | 50 | |
| | 20 | 9.693305 | 37 | 9.753918 | 49 | 0.246082 | 9.939387 | 12 | 40 | |
| | 30 | 9.693342 | 37 | 9.753967 | 49 | 0.246033 | 9.939375 | 12 | 30 | |
| | 40 | 9.693379 | 37 | 9.754016 | 49 | 0.245984 | 9.939363 | 12 | 20 | |
| | 50 | 9.693416 | 37 | 9.754066 | 50 | 0.245934 | 9.939351 | 12 | 10 | |
| 35 | 0 | 9.693453 | 37 | 9.754115 | 49 | 0.245885 | 9.939339 | 12 | 0 | 25 |
| | 10 | 9.693490 | 37 | 9.754164 | 49 | 0.245836 | 9.939327 | 12 | 50 | |
| | 20 | 9.693528 | 37 | 9.754213 | 49 | 0.245787 | 9.939315 | 12 | 40 | |
| | 30 | 9.693565 | 37 | 9.754262 | 49 | 0.245738 | 9.939303 | 12 | 30 | |
| | 40 | 9.693602 | 37 | 9.754311 | 49 | 0.245689 | 9.939291 | 12 | 20 | |
| | 50 | 9.693639 | 37 | 9.754360 | 49 | 0.245640 | 9.939279 | 12 | 10 | |
| 36 | 0 | 9.693676 | 37 | 9.754409 | 49 | 0.245591 | 9.939267 | 12 | 0 | 24 |
| | 10 | 9.693713 | 37 | 9.754458 | 49 | 0.245542 | 9.939255 | 12 | 50 | |
| | 20 | 9.693750 | 37 | 9.754507 | 49 | 0.245493 | 9.939243 | 12 | 40 | |
| | 30 | 9.693787 | 37 | 9.754556 | 49 | 0.245444 | 9.939231 | 12 | 30 | |
| | 40 | 9.693824 | 37 | 9.754605 | 49 | 0.245395 | 9.939219 | 12 | 20 | |
| | 50 | 9.693861 | 37 | 9.754654 | 49 | 0.245346 | 9.939207 | 12 | 10 | |
| 37 | 0 | 9.693898 | 37 | 9.754703 | 49 | 0.245297 | 9.939195 | 12 | 0 | 23 |
| | 10 | 9.693935 | 37 | 9.754752 | 49 | 0.245248 | 9.939183 | 12 | 50 | |
| | 20 | 9.693972 | 37 | 9.754801 | 49 | 0.245199 | 9.939171 | 12 | 40 | |
| | 30 | 9.694009 | 37 | 9.754850 | 49 | 0.245150 | 9.939159 | 12 | 30 | |
| | 40 | 9.694046 | 37 | 9.754899 | 49 | 0.245101 | 9.939147 | 12 | 20 | |
| | 50 | 9.694083 | 37 | 9.754948 | 49 | 0.245052 | 9.939135 | 12 | 10 | |
| 38 | 0 | 9.694120 | 37 | 9.754997 | 49 | 0.245003 | 9.939123 | 12 | 0 | 22 |
| | 10 | 9.694157 | 37 | 9.755046 | 49 | 0.244954 | 9.939111 | 12 | 50 | |
| | 20 | 9.694194 | 37 | 9.755095 | 49 | 0.244905 | 9.939099 | 12 | 40 | |
| | 30 | 9.694231 | 37 | 9.755144 | 49 | 0.244856 | 9.939087 | 12 | 30 | |
| | 40 | 9.694268 | 37 | 9.755193 | 49 | 0.244807 | 9.939076 | 12 | 20 | |
| | 50 | 9.694305 | 37 | 9.755242 | 49 | 0.244758 | 9.939064 | 12 | 10 | |
| 39 | 0 | 9.694342 | 37 | 9.755291 | 49 | 0.244709 | 9.939052 | 12 | 0 | 21 |
| | 10 | 9.694379 | 37 | 9.755340 | 49 | 0.244660 | 9.939040 | 12 | 50 | |
| | 20 | 9.694416 | 37 | 9.755389 | 49 | 0.244611 | 9.939028 | 12 | 40 | |
| | 30 | 9.694453 | 37 | 9.755438 | 49 | 0.244562 | 9.939016 | 12 | 30 | |
| | 40 | 9.694490 | 37 | 9.755487 | 49 | 0.244513 | 9.939004 | 12 | 20 | |
| | 50 | 9.694527 | 37 | 9.755536 | 49 | 0.244464 | 9.938992 | 12 | 10 | |
| 40 | 0 | 9.694564 | 37 | 9.755585 | 49 | 0.244415 | 9.938980 | 12 | 0 | 20 |

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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|-----------|-----------|----|----|----|
| 49 | 0 | 9.694564 | 37 | 9.755585 | 49 | 0.241115 | 9.938620 | 12 | 0 | 20 |
| 1 4.9 | 10 | 9.694601 | 37 | 9.755634 | 48 | 0.241130 | 9.938618 | 12 | 50 | |
| 2 9.8 | 20 | 9.694638 | 37 | 9.755682 | 48 | 0.2411318 | 9.9386156 | 12 | 40 | |
| 3 14.7 | 30 | 9.694675 | 37 | 9.755731 | 49 | 0.2411269 | 9.9386144 | 12 | 30 | |
| 4 19.6 | 40 | 9.694712 | 37 | 9.755780 | 49 | 0.2411220 | 9.9386132 | 12 | 20 | |
| 5 24.5 | 50 | 9.694749 | 37 | 9.755829 | 49 | 0.2411171 | 9.9386120 | 12 | 10 | |
| 6 29.4 | 0 | 9.694786 | 37 | 9.755878 | 49 | 0.2411122 | 9.9386108 | 12 | 0 | 19 |
| 7 34.3 | 10 | 9.694823 | 37 | 9.755927 | 49 | 0.2411073 | 9.9386096 | 12 | 50 | |
| 8 39.2 | 20 | 9.694860 | 37 | 9.755976 | 49 | 0.2411024 | 9.9386084 | 12 | 40 | |
| 9 44.1 | 30 | 9.694897 | 37 | 9.756025 | 49 | 0.2410975 | 9.9386072 | 12 | 30 | |
| | 40 | 9.694934 | 37 | 9.756074 | 49 | 0.2410926 | 9.9386060 | 12 | 20 | |
| | 50 | 9.694971 | 37 | 9.756123 | 49 | 0.2410877 | 9.9386048 | 12 | 10 | |
| 48 | 0 | 9.695007 | 37 | 9.756172 | 49 | 0.2410828 | 9.9386036 | 12 | 0 | 18 |
| 1 4.8 | 10 | 9.695044 | 37 | 9.756221 | 49 | 0.2410779 | 9.9386024 | 12 | 50 | |
| 2 9.6 | 20 | 9.695081 | 37 | 9.756270 | 49 | 0.2410730 | 9.9386012 | 12 | 40 | |
| 3 14.4 | 30 | 9.695118 | 37 | 9.756319 | 49 | 0.2410681 | 9.9386000 | 12 | 30 | |
| 4 19.2 | 40 | 9.695155 | 37 | 9.756368 | 49 | 0.2410632 | 9.9385988 | 12 | 20 | |
| 5 24.0 | 50 | 9.695192 | 37 | 9.756416 | 48 | 0.2410584 | 9.9385976 | 12 | 10 | |
| 6 28.8 | 0 | 9.695229 | 37 | 9.756465 | 49 | 0.2410535 | 9.9385963 | 12 | 0 | 17 |
| 7 33.6 | 10 | 9.695266 | 37 | 9.756514 | 49 | 0.2410486 | 9.9385951 | 12 | 50 | |
| 8 38.4 | 20 | 9.695303 | 37 | 9.756563 | 49 | 0.2410437 | 9.9385939 | 12 | 40 | |
| 9 43.2 | 30 | 9.695339 | 36 | 9.756612 | 49 | 0.2410388 | 9.9385927 | 12 | 30 | |
| | 40 | 9.695376 | 37 | 9.756661 | 49 | 0.2410339 | 9.9385915 | 12 | 20 | |
| * | 50 | 9.695413 | 37 | 9.756710 | 49 | 0.2410290 | 9.9385903 | 12 | 10 | |
| | 0 | 9.695450 | 37 | 9.756759 | 49 | 0.2410241 | 9.9385891 | 12 | 0 | 16 |
| | 10 | 9.695487 | 37 | 9.756808 | 49 | 0.2410192 | 9.9385879 | 12 | 50 | |
| 37 | 20 | 9.695524 | 37 | 9.756857 | 49 | 0.2410143 | 9.9385867 | 12 | 40 | |
| 1 3.7 | 30 | 9.695561 | 37 | 9.756905 | 48 | 0.2410095 | 9.9385855 | 12 | 30 | |
| 2 7.4 | 40 | 9.695598 | 37 | 9.756954 | 49 | 0.2410046 | 9.9385843 | 12 | 20 | |
| 3 11.1 | 50 | 9.695634 | 36 | 9.757003 | 49 | 0.2410007 | 9.9385831 | 12 | 10 | |
| 4 14.8 | 0 | 9.695671 | 37 | 9.757052 | 49 | 0.2410048 | 9.9385819 | 12 | 0 | 15 |
| 5 18.5 | 10 | 9.695708 | 37 | 9.757101 | 49 | 0.2410009 | 9.9385807 | 12 | 50 | |
| 6 22.2 | 20 | 9.695745 | 37 | 9.757150 | 49 | 0.2410000 | 9.9385795 | 12 | 40 | |
| 7 25.9 | 30 | 9.695782 | 37 | 9.757199 | 49 | 0.2410001 | 9.9385783 | 12 | 30 | |
| 8 29.6 | 40 | 9.695819 | 37 | 9.757247 | 48 | 0.2410002 | 9.9385771 | 12 | 20 | |
| 9 33.3 | 50 | 9.695855 | 36 | 9.757296 | 49 | 0.2410004 | 9.9385759 | 12 | 10 | |
| | 0 | 9.695892 | 37 | 9.757345 | 49 | 0.2410005 | 9.9385747 | 12 | 0 | 14 |
| 36 | 10 | 9.695929 | 37 | 9.757394 | 49 | 0.2410006 | 9.9385735 | 12 | 50 | |
| 1 3.6 | 20 | 9.695966 | 37 | 9.757443 | 49 | 0.2410007 | 9.9385723 | 12 | 40 | |
| 2 7.2 | 30 | 9.696003 | 37 | 9.757492 | 49 | 0.2410008 | 9.9385711 | 12 | 30 | |
| 3 10.8 | 40 | 9.696039 | 36 | 9.757541 | 49 | 0.2410009 | 9.9385699 | 12 | 20 | |
| 4 14.4 | 50 | 9.696076 | 37 | 9.757589 | 48 | 0.2410011 | 9.9385687 | 12 | 10 | |
| 5 18.0 | 0 | 9.696113 | 37 | 9.757638 | 49 | 0.2410012 | 9.9385675 | 12 | 0 | 13 |
| 6 21.6 | 10 | 9.696150 | 37 | 9.757687 | 49 | 0.2410013 | 9.9385663 | 12 | 50 | |
| 7 25.2 | 20 | 9.696187 | 37 | 9.757736 | 49 | 0.2410014 | 9.9385651 | 12 | 40 | |
| 8 28.8 | 30 | 9.696223 | 36 | 9.757785 | 49 | 0.2410015 | 9.9385639 | 12 | 30 | |
| 9 32.4 | 40 | 9.696260 | 37 | 9.757834 | 49 | 0.2410016 | 9.9385627 | 12 | 20 | |
| | 50 | 9.696297 | 37 | 9.757882 | 48 | 0.2410018 | 9.9385614 | 12 | 10 | |
| * | 0 | 9.696334 | 36 | 9.757931 | 49 | 0.2410019 | 9.9385602 | 12 | 0 | 12 |
| | 10 | 9.696370 | 37 | 9.757980 | 49 | 0.2410020 | 9.9385590 | 12 | 50 | |
| 12 | 20 | 9.696407 | 37 | 9.758029 | 49 | 0.2410021 | 9.9385578 | 12 | 40 | |
| 1 1.2 | 30 | 9.696444 | 37 | 9.758078 | 49 | 0.2410022 | 9.9385566 | 12 | 30 | |
| 2 2.4 | 40 | 9.696481 | 37 | 9.758127 | 49 | 0.2410023 | 9.9385554 | 12 | 20 | |
| 3 3.6 | 50 | 9.696517 | 36 | 9.758175 | 48 | 0.2410025 | 9.9385542 | 12 | 10 | |
| 4 4.8 | 0 | 9.696554 | 37 | 9.758224 | 49 | 0.2410026 | 9.9385530 | 12 | 0 | 11 |
| 5 6.0 | 10 | 9.696591 | 37 | 9.758273 | 49 | 0.2410027 | 9.9385518 | 12 | 50 | |
| 6 7.2 | 20 | 9.696628 | 37 | 9.758322 | 49 | 0.2410028 | 9.9385506 | 12 | 40 | |
| 7 8.4 | 30 | 9.696664 | 36 | 9.758371 | 49 | 0.2410029 | 9.9385494 | 12 | 30 | |
| 8 9.6 | 40 | 9.696701 | 37 | 9.758419 | 48 | 0.2410031 | 9.9385482 | 12 | 20 | |
| 9 10.8 | 50 | 9.696738 | 37 | 9.758468 | 49 | 0.2410032 | 9.9385470 | 12 | 10 | |
| | 0 | 9.696775 | 37 | 9.758517 | 49 | 0.2410033 | 9.9385458 | 12 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.696775 | 36 | 9.758517 | 49 | 0.241483 | 9.938258 | 13 | 0 | 10 |
| | 10 | 9.696811 | 37 | 9.758566 | 49 | 0.241434 | 9.938245 | 12 | 50 | 49 |
| | 20 | 9.696848 | 37 | 9.758615 | 49 | 0.241385 | 9.938233 | 12 | 40 | 1 4.9 |
| | 30 | 9.696885 | 36 | 9.758663 | 49 | 0.241337 | 9.938221 | 12 | 30 | 2 9.8 |
| | 40 | 9.696921 | 37 | 9.758712 | 49 | 0.241288 | 9.938209 | 12 | 20 | 3 14.7 |
| | 50 | 9.696958 | 37 | 9.758761 | 49 | 0.241239 | 9.938197 | 12 | 10 | 4 19.6 |
| 51 | 0 | 9.696995 | 36 | 9.758810 | 48 | 0.241190 | 9.938185 | 12 | 0 | 5 24.5 |
| | 10 | 9.697031 | 37 | 9.758858 | 48 | 0.241142 | 9.938173 | 12 | 50 | 6 29.4 |
| | 20 | 9.697068 | 37 | 9.758907 | 49 | 0.241093 | 9.938161 | 12 | 40 | 7 34.3 |
| | 30 | 9.697105 | 36 | 9.758956 | 49 | 0.241044 | 9.938149 | 12 | 30 | 8 39.2 |
| | 40 | 9.697141 | 37 | 9.759005 | 49 | 0.240995 | 9.938137 | 12 | 20 | 9 44.1 |
| | 50 | 9.697178 | 37 | 9.759053 | 48 | 0.240946 | 9.938125 | 12 | 10 | |
| 52 | 0 | 9.697215 | 36 | 9.759102 | 49 | 0.240897 | 9.938113 | 13 | 0 | 8 |
| | 10 | 9.697251 | 37 | 9.759151 | 49 | 0.240848 | 9.938101 | 12 | 50 | 1 4.8 |
| | 20 | 9.697288 | 37 | 9.759200 | 49 | 0.240799 | 9.938089 | 12 | 40 | 2 9.6 |
| | 30 | 9.697325 | 36 | 9.759248 | 49 | 0.240752 | 9.938076 | 12 | 30 | 3 14.4 |
| | 40 | 9.697361 | 37 | 9.759297 | 49 | 0.240703 | 9.938064 | 12 | 20 | 4 19.2 |
| | 50 | 9.697398 | 37 | 9.759346 | 49 | 0.240654 | 9.938052 | 12 | 10 | 5 24.0 |
| 53 | 0 | 9.697435 | 36 | 9.759395 | 48 | 0.240605 | 9.938040 | 12 | 0 | 6 28.8 |
| | 10 | 9.697471 | 37 | 9.759443 | 49 | 0.240557 | 9.938028 | 12 | 50 | 7 33.6 |
| | 20 | 9.697508 | 37 | 9.759492 | 49 | 0.240508 | 9.938016 | 12 | 40 | 8 38.4 |
| | 30 | 9.697545 | 36 | 9.759541 | 49 | 0.240459 | 9.938004 | 12 | 30 | 9 43.2 |
| | 40 | 9.697581 | 37 | 9.759590 | 49 | 0.240410 | 9.937992 | 12 | 20 | |
| | 50 | 9.697618 | 37 | 9.759638 | 48 | 0.240362 | 9.937979 | 13 | 10 | |
| 54 | 0 | 9.697654 | 36 | 9.759687 | 49 | 0.240313 | 9.937967 | 12 | 0 | 6 |
| | 10 | 9.697691 | 37 | 9.759736 | 49 | 0.240264 | 9.937955 | 12 | 50 | |
| | 20 | 9.697728 | 37 | 9.759785 | 49 | 0.240215 | 9.937943 | 12 | 40 | 37 |
| | 30 | 9.697764 | 36 | 9.759833 | 48 | 0.240167 | 9.937931 | 12 | 30 | 1 3.7 |
| | 40 | 9.697801 | 37 | 9.759882 | 49 | 0.240118 | 9.937919 | 12 | 20 | 2 7.4 |
| | 50 | 9.697838 | 37 | 9.759931 | 48 | 0.240069 | 9.937907 | 12 | 10 | 3 11.1 |
| 55 | 0 | 9.697874 | 36 | 9.759979 | 49 | 0.240021 | 9.937895 | 12 | 0 | 4 14.8 |
| | 10 | 9.697911 | 37 | 9.760028 | 49 | 0.239972 | 9.937883 | 12 | 50 | 5 18.5 |
| | 20 | 9.697947 | 36 | 9.760077 | 49 | 0.239923 | 9.937870 | 13 | 40 | 6 22.2 |
| | 30 | 9.697984 | 37 | 9.760126 | 49 | 0.239874 | 9.937858 | 12 | 30 | 7 25.9 |
| | 40 | 9.698020 | 36 | 9.760174 | 48 | 0.239826 | 9.937846 | 12 | 20 | 8 29.6 |
| | 50 | 9.698057 | 37 | 9.760223 | 49 | 0.239777 | 9.937834 | 12 | 10 | 9 33.3 |
| 56 | 0 | 9.698094 | 36 | 9.760272 | 49 | 0.239728 | 9.937822 | 12 | 0 | 4 |
| | 10 | 9.698130 | 37 | 9.760320 | 48 | 0.239680 | 9.937810 | 12 | 50 | 36 |
| | 20 | 9.698167 | 37 | 9.760369 | 49 | 0.239631 | 9.937798 | 12 | 40 | 1 3.6 |
| | 30 | 9.698203 | 36 | 9.760418 | 49 | 0.239582 | 9.937786 | 12 | 30 | 2 7.2 |
| | 40 | 9.698240 | 37 | 9.760466 | 48 | 0.239534 | 9.937773 | 13 | 20 | 3 10.8 |
| | 50 | 9.698276 | 36 | 9.760515 | 49 | 0.239485 | 9.937761 | 12 | 10 | 4 14.4 |
| 57 | 0 | 9.698313 | 37 | 9.760564 | 49 | 0.239436 | 9.937749 | 12 | 0 | 5 18.0 |
| | 10 | 9.698349 | 36 | 9.760612 | 48 | 0.239388 | 9.937737 | 12 | 50 | 6 21.6 |
| | 20 | 9.698386 | 37 | 9.760661 | 49 | 0.239339 | 9.937725 | 12 | 40 | 7 25.2 |
| | 30 | 9.698423 | 37 | 9.760710 | 49 | 0.239290 | 9.937713 | 12 | 30 | 8 28.8 |
| | 40 | 9.698459 | 36 | 9.760758 | 48 | 0.239242 | 9.937701 | 12 | 20 | 9 32.4 |
| | 50 | 9.698496 | 37 | 9.760807 | 49 | 0.239193 | 9.937689 | 12 | 10 | |
| 58 | 0 | 9.698532 | 36 | 9.760856 | 49 | 0.239144 | 9.937676 | 13 | 0 | 2 |
| | 10 | 9.698569 | 37 | 9.760904 | 48 | 0.239096 | 9.937664 | 12 | 50 | |
| | 20 | 9.698605 | 36 | 9.760953 | 49 | 0.239047 | 9.937652 | 12 | 40 | |
| | 30 | 9.698642 | 37 | 9.761002 | 49 | 0.238998 | 9.937640 | 12 | 30 | 13 |
| | 40 | 9.698678 | 36 | 9.761050 | 48 | 0.238950 | 9.937628 | 12 | 20 | 1 1.3 |
| | 50 | 9.698715 | 37 | 9.761099 | 49 | 0.238901 | 9.937616 | 12 | 10 | 2 2.6 |
| 59 | 0 | 9.698751 | 36 | 9.761148 | 49 | 0.238852 | 9.937604 | 12 | 0 | 3 3.9 |
| | 10 | 9.698788 | 37 | 9.761196 | 48 | 0.238804 | 9.937591 | 13 | 50 | 4 5.2 |
| | 20 | 9.698824 | 36 | 9.761245 | 49 | 0.238755 | 9.937579 | 12 | 40 | 5 6.5 |
| | 30 | 9.698861 | 37 | 9.761293 | 48 | 0.238707 | 9.937567 | 12 | 30 | 6 7.8 |
| | 40 | 9.698897 | 36 | 9.761342 | 49 | 0.238658 | 9.937555 | 12 | 20 | 7 9.1 |
| | 50 | 9.698934 | 37 | 9.761391 | 49 | 0.238609 | 9.937543 | 12 | 10 | 8 10.4 |
| 60 | 0 | 9.698970 | 36 | 9.761439 | 48 | 0.238561 | 9.937531 | 12 | 0 | 9 11.7 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 49 | 0 | 9.698970 | 36 | 9.761439 | 49 | 0.238561 | 9.937531 | 13 | 0 | 60 |
| 1 4.9 | 10 | 9.699006 | 37 | 9.761488 | 49 | 0.238512 | 9.937518 | 12 | 50 | |
| 2 9.8 | 20 | 9.699043 | 36 | 9.761537 | 48 | 0.238463 | 9.937506 | 12 | 40 | |
| 3 14.7 | 30 | 9.699079 | 37 | 9.761585 | 49 | 0.238415 | 9.937494 | 12 | 30 | |
| 4 19.6 | 40 | 9.699116 | 36 | 9.761634 | 48 | 0.238366 | 9.937482 | 12 | 20 | |
| 5 24.5 | 50 | 9.699152 | 37 | 9.761682 | 49 | 0.238318 | 9.937470 | 12 | 10 | |
| 6 29.4 | 1 | 9.699189 | 36 | 9.761731 | 49 | 0.238269 | 9.937458 | 12 | 0 | 59 |
| 7 34.3 | 10 | 9.699225 | 37 | 9.761780 | 48 | 0.238220 | 9.937446 | 13 | 50 | |
| 8 39.2 | 20 | 9.699262 | 36 | 9.761828 | 49 | 0.238172 | 9.937433 | 12 | 40 | |
| 9 44.1 | 30 | 9.699298 | 37 | 9.761877 | 48 | 0.238123 | 9.937421 | 12 | 30 | |
| | 40 | 9.699334 | 36 | 9.761925 | 49 | 0.238075 | 9.937409 | 12 | 20 | |
| | 50 | 9.699371 | 37 | 9.761974 | 48 | 0.238026 | 9.937397 | 12 | 10 | |
| 48 | 0 | 9.699407 | 36 | 9.762023 | 49 | 0.237977 | 9.937385 | 13 | 0 | 58 |
| 1 4.8 | 10 | 9.699444 | 37 | 9.762071 | 48 | 0.237929 | 9.937372 | 12 | 50 | |
| 2 9.6 | 20 | 9.699480 | 36 | 9.762120 | 49 | 0.237880 | 9.937360 | 12 | 40 | |
| 3 14.4 | 30 | 9.699517 | 37 | 9.762168 | 48 | 0.237832 | 9.937348 | 12 | 30 | |
| 4 19.2 | 40 | 9.699553 | 36 | 9.762217 | 49 | 0.237783 | 9.937336 | 12 | 20 | |
| 5 24.0 | 50 | 9.699589 | 37 | 9.762266 | 48 | 0.237734 | 9.937324 | 12 | 10 | |
| 6 28.8 | 0 | 9.699626 | 36 | 9.762314 | 49 | 0.237686 | 9.937312 | 13 | 0 | 57 |
| 7 33.6 | 10 | 9.699662 | 37 | 9.762363 | 48 | 0.237637 | 9.937299 | 12 | 50 | |
| 8 38.4 | 20 | 9.699699 | 36 | 9.762411 | 49 | 0.237589 | 9.937287 | 12 | 40 | |
| 9 43.2 | 30 | 9.699735 | 37 | 9.762460 | 48 | 0.237540 | 9.937275 | 12 | 30 | |
| | 40 | 9.699771 | 36 | 9.762508 | 49 | 0.237492 | 9.937263 | 12 | 20 | |
| * | 50 | 9.699808 | 37 | 9.762557 | 48 | 0.237443 | 9.937251 | 13 | 10 | |
| | 0 | 9.699844 | 36 | 9.762606 | 49 | 0.237394 | 9.937238 | 12 | 0 | 56 |
| | 10 | 9.699880 | 37 | 9.762654 | 48 | 0.237346 | 9.937226 | 12 | 50 | |
| 37 | 20 | 9.699917 | 36 | 9.762703 | 49 | 0.237297 | 9.937214 | 12 | 40 | |
| 1 3.7 | 30 | 9.699953 | 37 | 9.762751 | 48 | 0.237249 | 9.937202 | 12 | 30 | |
| 2 7.4 | 40 | 9.699990 | 36 | 9.762800 | 49 | 0.237200 | 9.937190 | 12 | 20 | |
| 3 11.1 | 50 | 9.700026 | 37 | 9.762848 | 48 | 0.237152 | 9.937178 | 13 | 10 | |
| 4 14.8 | 0 | 9.700062 | 36 | 9.762897 | 49 | 0.237103 | 9.937165 | 12 | 0 | 55 |
| 5 18.5 | 10 | 9.700099 | 37 | 9.762945 | 48 | 0.237055 | 9.937153 | 12 | 50 | |
| 6 22.2 | 20 | 9.700135 | 36 | 9.762994 | 49 | 0.237006 | 9.937141 | 12 | 40 | |
| 7 25.9 | 30 | 9.700171 | 37 | 9.763043 | 48 | 0.236957 | 9.937129 | 12 | 30 | |
| 8 29.6 | 40 | 9.700208 | 36 | 9.763091 | 49 | 0.236909 | 9.937117 | 13 | 20 | |
| 9 33.3 | 50 | 9.700244 | 37 | 9.763140 | 48 | 0.236860 | 9.937104 | 12 | 10 | |
| | 0 | 9.700280 | 36 | 9.763188 | 49 | 0.236812 | 9.937092 | 12 | 0 | 54 |
| 36 | 10 | 9.700317 | 37 | 9.763237 | 48 | 0.236763 | 9.937080 | 12 | 50 | |
| 1 3.6 | 20 | 9.700353 | 36 | 9.763285 | 49 | 0.236715 | 9.937068 | 12 | 40 | |
| 2 7.2 | 30 | 9.700389 | 37 | 9.763334 | 48 | 0.236666 | 9.937056 | 13 | 30 | |
| 3 10.8 | 40 | 9.700425 | 36 | 9.763382 | 49 | 0.236618 | 9.937043 | 12 | 20 | |
| 4 14.4 | 50 | 9.700462 | 37 | 9.763431 | 48 | 0.236569 | 9.937031 | 12 | 10 | |
| 5 18.0 | 0 | 9.700498 | 36 | 9.763479 | 49 | 0.236521 | 9.937019 | 12 | 0 | 53 |
| 6 21.6 | 10 | 9.700534 | 37 | 9.763528 | 48 | 0.236472 | 9.937007 | 13 | 50 | |
| 7 25.2 | 20 | 9.700571 | 36 | 9.763576 | 49 | 0.236424 | 9.936994 | 12 | 40 | |
| 8 28.8 | 30 | 9.700607 | 37 | 9.763625 | 48 | 0.236375 | 9.936982 | 12 | 30 | |
| 9 32.4 | 40 | 9.700643 | 36 | 9.763673 | 49 | 0.236327 | 9.936970 | 12 | 20 | |
| * | 50 | 9.700680 | 37 | 9.763722 | 48 | 0.236278 | 9.936958 | 13 | 10 | |
| | 0 | 9.700716 | 36 | 9.763770 | 49 | 0.236230 | 9.936946 | 12 | 0 | 52 |
| | 10 | 9.700752 | 37 | 9.763819 | 48 | 0.236181 | 9.936933 | 12 | 50 | |
| | 20 | 9.700788 | 36 | 9.763867 | 49 | 0.236133 | 9.936921 | 12 | 40 | |
| | 30 | 9.700825 | 37 | 9.763916 | 48 | 0.236084 | 9.936909 | 12 | 30 | |
| 12 | 40 | 9.700861 | 36 | 9.763964 | 49 | 0.236036 | 9.936897 | 12 | 20 | |
| 1 1.2 | 50 | 9.700897 | 37 | 9.764013 | 48 | 0.235987 | 9.936884 | 13 | 10 | |
| 2 2.4 | 0 | 9.700933 | 36 | 9.764061 | 49 | 0.235939 | 9.936872 | 12 | 0 | 51 |
| 3 3.6 | 10 | 9.700970 | 37 | 9.764110 | 48 | 0.235890 | 9.936860 | 12 | 50 | |
| 4 4.8 | 20 | 9.701006 | 36 | 9.764158 | 49 | 0.235842 | 9.936848 | 12 | 40 | |
| 5 6.0 | 30 | 9.701042 | 37 | 9.764207 | 48 | 0.235793 | 9.936836 | 12 | 30 | |
| 6 7.2 | 40 | 9.701078 | 36 | 9.764255 | 49 | 0.235745 | 9.936823 | 12 | 20 | |
| 7 8.4 | 50 | 9.701115 | 37 | 9.764304 | 48 | 0.235696 | 9.936811 | 13 | 10 | |
| 8 9.6 | 0 | 9.701151 | 36 | 9.764352 | 49 | 0.235648 | 9.936799 | 12 | 0 | 50 |
| 9 10.8 | 10 | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 10 | 0 | 9.701151 | 36 | 9.764352 | 48 | 0.235648 | 9.936799 | 12 | 0 | 50 |
| 10 | 10 | 9.701187 | 36 | 9.764400 | 49 | 0.235600 | 9.936787 | 13 | 50 | 49 |
| 20 | 0 | 9.701223 | 36 | 9.764449 | 48 | 0.235551 | 9.936774 | 12 | 40 | 1 4.9 |
| 30 | 0 | 9.701259 | 37 | 9.764497 | 49 | 0.235503 | 9.936762 | 12 | 30 | 2 9.8 |
| 40 | 0 | 9.701296 | 36 | 9.764546 | 48 | 0.235454 | 9.936750 | 12 | 20 | 3 14.7 |
| 50 | 0 | 9.701332 | 36 | 9.764594 | 48 | 0.235406 | 9.936738 | 12 | 10 | 4 19.6 |
| 11 | 0 | 9.701368 | 36 | 9.764643 | 49 | 0.235357 | 9.936725 | 13 | 0 | 5 24.5 |
| 10 | 10 | 9.701404 | 36 | 9.764691 | 49 | 0.235309 | 9.936713 | 12 | 50 | 6 29.4 |
| 20 | 0 | 9.701440 | 37 | 9.764740 | 48 | 0.235260 | 9.936701 | 12 | 40 | 7 34.3 |
| 30 | 0 | 9.701477 | 36 | 9.764788 | 48 | 0.235212 | 9.936689 | 12 | 30 | 8 39.2 |
| 40 | 0 | 9.701513 | 36 | 9.764836 | 49 | 0.235164 | 9.936676 | 13 | 20 | 9 44.1 |
| 50 | 0 | 9.701549 | 36 | 9.764885 | 49 | 0.235115 | 9.936664 | 12 | 10 | |
| 12 | 0 | 9.701585 | 36 | 9.764933 | 48 | 0.235067 | 9.936652 | 12 | 0 | 48 |
| 10 | 10 | 9.701621 | 37 | 9.764982 | 48 | 0.235018 | 9.936640 | 12 | 50 | 1 4.8 |
| 20 | 0 | 9.701658 | 36 | 9.765030 | 49 | 0.234970 | 9.936627 | 13 | 40 | 2 9.6 |
| 30 | 0 | 9.701694 | 36 | 9.765079 | 48 | 0.234921 | 9.936615 | 12 | 30 | 3 14.4 |
| 40 | 0 | 9.701730 | 36 | 9.765127 | 48 | 0.234873 | 9.936603 | 12 | 20 | 4 19.2 |
| 50 | 0 | 9.701766 | 36 | 9.765175 | 49 | 0.234825 | 9.936591 | 12 | 10 | 5 24.0 |
| 13 | 0 | 9.701802 | 36 | 9.765224 | 48 | 0.234776 | 9.936578 | 13 | 0 | 6 28.8 |
| 10 | 10 | 9.701838 | 36 | 9.765272 | 49 | 0.234728 | 9.936566 | 12 | 50 | 7 33.6 |
| 20 | 0 | 9.701874 | 37 | 9.765321 | 48 | 0.234679 | 9.936554 | 12 | 40 | 8 38.4 |
| 30 | 0 | 9.701911 | 36 | 9.765369 | 49 | 0.234631 | 9.936542 | 12 | 30 | 9 43.2 |
| 40 | 0 | 9.701947 | 36 | 9.765418 | 48 | 0.234582 | 9.936529 | 13 | 20 | |
| 50 | 0 | 9.701983 | 36 | 9.765466 | 48 | 0.234534 | 9.936517 | 12 | 10 | |
| 14 | 0 | 9.702019 | 36 | 9.765514 | 49 | 0.234486 | 9.936505 | 12 | 0 | * |
| 10 | 10 | 9.702055 | 36 | 9.765563 | 48 | 0.234437 | 9.936492 | 13 | 50 | |
| 20 | 0 | 9.702091 | 36 | 9.765611 | 49 | 0.234389 | 9.936480 | 12 | 40 | 37 |
| 30 | 0 | 9.702127 | 37 | 9.765660 | 48 | 0.234340 | 9.936468 | 12 | 30 | 1 3.7 |
| 40 | 0 | 9.702164 | 36 | 9.765708 | 48 | 0.234292 | 9.936456 | 12 | 20 | 2 7.4 |
| 50 | 0 | 9.702200 | 36 | 9.765756 | 49 | 0.234244 | 9.936443 | 13 | 10 | 3 11.1 |
| 15 | 0 | 9.702236 | 36 | 9.765805 | 48 | 0.234195 | 9.936431 | 12 | 0 | 4 14.8 |
| 10 | 10 | 9.702272 | 36 | 9.765853 | 48 | 0.234147 | 9.936419 | 13 | 50 | 5 18.5 |
| 20 | 0 | 9.702308 | 36 | 9.765901 | 49 | 0.234099 | 9.936406 | 12 | 40 | 6 22.2 |
| 30 | 0 | 9.702344 | 36 | 9.765950 | 48 | 0.234050 | 9.936394 | 12 | 30 | 7 25.9 |
| 40 | 0 | 9.702380 | 36 | 9.765998 | 49 | 0.234002 | 9.936382 | 12 | 20 | 8 29.6 |
| 50 | 0 | 9.702416 | 36 | 9.766047 | 48 | 0.233953 | 9.936370 | 12 | 10 | 9 33.3 |
| 16 | 0 | 9.702452 | 36 | 9.766095 | 48 | 0.233905 | 9.936357 | 13 | 0 | |
| 10 | 10 | 9.702488 | 36 | 9.766143 | 49 | 0.233857 | 9.936345 | 12 | 50 | 36 |
| 20 | 0 | 9.702524 | 37 | 9.766192 | 48 | 0.233808 | 9.936333 | 12 | 40 | 1 3.6 |
| 30 | 0 | 9.702561 | 36 | 9.766240 | 48 | 0.233760 | 9.936320 | 13 | 30 | 2 7.2 |
| 40 | 0 | 9.702597 | 36 | 9.766288 | 49 | 0.233712 | 9.936308 | 12 | 20 | 3 10.8 |
| 50 | 0 | 9.702633 | 36 | 9.766337 | 48 | 0.233663 | 9.936296 | 12 | 10 | 4 14.4 |
| 17 | 0 | 9.702669 | 36 | 9.766385 | 48 | 0.233615 | 9.936284 | 12 | 0 | 5 18.0 |
| 10 | 10 | 9.702705 | 36 | 9.766433 | 49 | 0.233567 | 9.936271 | 13 | 50 | 6 21.6 |
| 20 | 0 | 9.702741 | 36 | 9.766482 | 48 | 0.233518 | 9.936259 | 12 | 40 | 7 25.2 |
| 30 | 0 | 9.702777 | 36 | 9.766530 | 48 | 0.233470 | 9.936247 | 12 | 30 | 8 28.8 |
| 40 | 0 | 9.702813 | 36 | 9.766578 | 49 | 0.233422 | 9.936234 | 13 | 20 | 9 32.4 |
| 50 | 0 | 9.702849 | 36 | 9.766627 | 48 | 0.233373 | 9.936222 | 12 | 10 | |
| 18 | 0 | 9.702885 | 36 | 9.766675 | 48 | 0.233325 | 9.936210 | 12 | 0 | * |
| 10 | 10 | 9.702921 | 36 | 9.766723 | 49 | 0.233277 | 9.936198 | 12 | 50 | |
| 20 | 0 | 9.702957 | 36 | 9.766772 | 48 | 0.233228 | 9.936185 | 13 | 40 | 13 |
| 30 | 0 | 9.702993 | 36 | 9.766820 | 48 | 0.233180 | 9.936173 | 12 | 30 | 1 1.3 |
| 40 | 0 | 9.703029 | 36 | 9.766868 | 49 | 0.233132 | 9.936161 | 12 | 20 | 2 2.6 |
| 50 | 0 | 9.703065 | 36 | 9.766917 | 48 | 0.233083 | 9.936148 | 13 | 10 | 3 3.9 |
| 19 | 0 | 9.703101 | 36 | 9.766965 | 48 | 0.233035 | 9.936136 | 12 | 0 | 4 5.2 |
| 10 | 10 | 9.703137 | 36 | 9.767013 | 49 | 0.232987 | 9.936124 | 12 | 50 | 5 6.5 |
| 20 | 0 | 9.703173 | 36 | 9.767062 | 48 | 0.232938 | 9.936111 | 13 | 40 | 6 7.8 |
| 30 | 0 | 9.703209 | 36 | 9.767110 | 48 | 0.232890 | 9.936099 | 12 | 30 | 7 9.1 |
| 40 | 0 | 9.703245 | 36 | 9.767158 | 49 | 0.232842 | 9.936087 | 12 | 20 | 8 10.4 |
| 50 | 0 | 9.703281 | 36 | 9.767207 | 48 | 0.232793 | 9.936074 | 13 | 10 | 9 11.7 |
| 20 | 0 | 9.703317 | 36 | 9.767255 | 48 | 0.232745 | 9.936062 | 12 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|-----|----------|------|----------|------|----------|----------|----|----|----|
| 49 | 20 | 0 | 9.703317 | 36 | 9.767255 | 48 | 0.232745 | 9.936062 | 12 | 0 | 40 |
| 1 4.9 | | 10 | 9.703353 | 36 | 9.767303 | 49 | 0.232697 | 9.936050 | 13 | 50 | |
| 2 9.8 | | 20 | 9.703389 | 36 | 9.767352 | 48 | 0.232648 | 9.936037 | 13 | 40 | |
| 3 14.7 | | 30 | 9.703425 | 36 | 9.767400 | 48 | 0.232600 | 9.936025 | 12 | 30 | |
| 4 19.6 | | 40 | 9.703461 | 36 | 9.767448 | 48 | 0.232552 | 9.936013 | 12 | 20 | |
| 5 24.5 | | 50 | 9.703497 | 36 | 9.767496 | 48 | 0.232504 | 9.936000 | 13 | 10 | |
| 6 29.4 | 21 | 0 | 9.703533 | 36 | 9.767545 | 49 | 0.232455 | 9.935988 | 12 | 0 | 39 |
| 7 34.3 | | 10 | 9.703569 | 36 | 9.767593 | 48 | 0.232407 | 9.935976 | 12 | 50 | |
| 8 39.2 | | 20 | 9.703605 | 36 | 9.767641 | 49 | 0.232359 | 9.935963 | 13 | 40 | |
| 9 44.1 | | 30 | 9.703641 | 36 | 9.767690 | 48 | 0.232310 | 9.935951 | 12 | 30 | |
| | | 40 | 9.703677 | 36 | 9.767738 | 48 | 0.232262 | 9.935939 | 12 | 20 | |
| | | 50 | 9.703713 | 36 | 9.767786 | 48 | 0.232214 | 9.935926 | 13 | 10 | |
| 48 | 22 | 0 | 9.703749 | 35 | 9.767834 | 49 | 0.232166 | 9.935914 | 12 | 0 | 38 |
| 1 4.8 | | 10 | 9.703784 | 36 | 9.767883 | 48 | 0.232117 | 9.935902 | 12 | 50 | |
| 2 9.6 | | 20 | 9.703820 | 36 | 9.767931 | 48 | 0.232069 | 9.935889 | 13 | 40 | |
| 3 14.4 | | 30 | 9.703856 | 36 | 9.767979 | 48 | 0.232021 | 9.935877 | 12 | 30 | |
| 4 19.2 | | 40 | 9.703892 | 36 | 9.768027 | 49 | 0.231973 | 9.935865 | 12 | 20 | |
| 5 24.0 | | 50 | 9.703928 | 36 | 9.768076 | 48 | 0.231924 | 9.935852 | 13 | 10 | |
| 6 28.8 | 23 | 0 | 9.703964 | 36 | 9.768124 | 48 | 0.231876 | 9.935840 | 12 | 0 | 37 |
| 7 33.6 | | 10 | 9.704000 | 36 | 9.768172 | 49 | 0.231828 | 9.935828 | 12 | 50 | |
| 8 38.4 | | 20 | 9.704036 | 36 | 9.768221 | 48 | 0.231779 | 9.935815 | 13 | 40 | |
| 9 43.2 | | 30 | 9.704072 | 36 | 9.768269 | 48 | 0.231731 | 9.935803 | 12 | 30 | |
| * | | 40 | 9.704108 | 36 | 9.768317 | 48 | 0.231683 | 9.935791 | 12 | 20 | |
| | | 50 | 9.704144 | 35 | 9.768365 | 49 | 0.231635 | 9.935778 | 13 | 10 | |
| 36 | 24 | 0 | 9.704179 | 36 | 9.768414 | 48 | 0.231586 | 9.935766 | 12 | 0 | 36 |
| 1 3.6 | | 10 | 9.704215 | 36 | 9.768462 | 48 | 0.231538 | 9.935754 | 12 | 50 | |
| 2 7.2 | | 20 | 9.704251 | 36 | 9.768510 | 48 | 0.231490 | 9.935741 | 13 | 40 | |
| 3 10.8 | | 30 | 9.704287 | 36 | 9.768558 | 48 | 0.231442 | 9.935729 | 12 | 30 | |
| 4 14.4 | | 40 | 9.704323 | 36 | 9.768606 | 49 | 0.231394 | 9.935717 | 12 | 20 | |
| 5 18.0 | | 50 | 9.704359 | 36 | 9.768655 | 48 | 0.231345 | 9.935704 | 13 | 10 | |
| 6 21.6 | 25 | 0 | 9.704395 | 36 | 9.768703 | 48 | 0.231297 | 9.935692 | 12 | 0 | 35 |
| 7 25.2 | | 10 | 9.704431 | 35 | 9.768751 | 48 | 0.231249 | 9.935679 | 13 | 50 | |
| 8 28.8 | | 20 | 9.704466 | 36 | 9.768799 | 49 | 0.231201 | 9.935667 | 12 | 40 | |
| 9 32.4 | | 30 | 9.704502 | 36 | 9.768848 | 48 | 0.231152 | 9.935655 | 12 | 30 | |
| | | 40 | 9.704538 | 36 | 9.768896 | 48 | 0.231104 | 9.935642 | 13 | 20 | |
| | | 50 | 9.704574 | 36 | 9.768944 | 48 | 0.231056 | 9.935630 | 12 | 10 | |
| 35 | 26 | 0 | 9.704610 | 36 | 9.768992 | 48 | 0.231008 | 9.935618 | 12 | 0 | 34 |
| 1 3.5 | | 10 | 9.704646 | 36 | 9.769040 | 49 | 0.230960 | 9.935605 | 13 | 50 | |
| 2 7.0 | | 20 | 9.704682 | 36 | 9.769089 | 48 | 0.230911 | 9.935593 | 12 | 40 | |
| 3 10.5 | | 30 | 9.704717 | 35 | 9.769137 | 48 | 0.230863 | 9.935581 | 12 | 30 | |
| 4 14.0 | | 40 | 9.704753 | 36 | 9.769185 | 48 | 0.230815 | 9.935568 | 13 | 20 | |
| 5 17.5 | | 50 | 9.704789 | 36 | 9.769233 | 48 | 0.230767 | 9.935556 | 12 | 10 | |
| 6 21.0 | 27 | 0 | 9.704825 | 36 | 9.769281 | 49 | 0.230719 | 9.935543 | 13 | 0 | 33 |
| 7 24.5 | | 10 | 9.704861 | 35 | 9.769330 | 48 | 0.230670 | 9.935531 | 12 | 50 | |
| 8 28.0 | | 20 | 9.704896 | 36 | 9.769378 | 48 | 0.230622 | 9.935519 | 12 | 40 | |
| 9 31.5 | | 30 | 9.704932 | 36 | 9.769426 | 48 | 0.230574 | 9.935506 | 13 | 30 | |
| * | | 40 | 9.704968 | 36 | 9.769474 | 48 | 0.230526 | 9.935494 | 12 | 20 | |
| | | 50 | 9.705004 | 36 | 9.769522 | 49 | 0.230478 | 9.935482 | 12 | 10 | |
| 12 | 28 | 0 | 9.705040 | 35 | 9.769571 | 48 | 0.230429 | 9.935470 | 13 | 0 | 32 |
| 1 1.2 | | 10 | 9.705075 | 36 | 9.769619 | 48 | 0.230381 | 9.935457 | 12 | 50 | |
| 2 2.4 | | 20 | 9.705111 | 36 | 9.769667 | 48 | 0.230333 | 9.935444 | 13 | 40 | |
| 3 3.6 | | 30 | 9.705147 | 36 | 9.769715 | 48 | 0.230285 | 9.935432 | 12 | 30 | |
| 4 4.8 | | 40 | 9.705183 | 36 | 9.769763 | 48 | 0.230237 | 9.935420 | 12 | 20 | |
| 5 6.0 | | 50 | 9.705219 | 36 | 9.769811 | 48 | 0.230189 | 9.935407 | 13 | 10 | |
| 6 7.2 | 29 | 0 | 9.705254 | 35 | 9.769860 | 49 | 0.230140 | 9.935395 | 12 | 0 | 31 |
| 7 8.4 | | 10 | 9.705290 | 36 | 9.769908 | 48 | 0.230092 | 9.935382 | 13 | 50 | |
| 8 9.6 | | 20 | 9.705326 | 36 | 9.769956 | 48 | 0.230044 | 9.935370 | 12 | 40 | |
| 9 10.8 | | 30 | 9.705362 | 35 | 9.770004 | 48 | 0.229996 | 9.935358 | 12 | 30 | |
| | | 40 | 9.705397 | 36 | 9.770052 | 48 | 0.229948 | 9.935345 | 13 | 20 | |
| | | 50 | 9.705433 | 36 | 9.770100 | 48 | 0.229900 | 9.935333 | 12 | 10 | |
| | 30 | 0 | 9.705469 | 36 | 9.770148 | 48 | 0.229852 | 9.935320 | 13 | 0 | 30 |
| | | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.705469 | 36 | 9.770148 | 49 | 0.229852 | 9.935320 | 12 | 0 | 30 |
| | 10 | 9.705505 | 35 | 9.770197 | 48 | 0.229803 | 9.935308 | 12 | 50 | |
| | 20 | 9.705540 | 36 | 9.770245 | 48 | 0.229755 | 9.935296 | 12 | 40 | |
| | 30 | 9.705576 | 36 | 9.770293 | 48 | 0.229707 | 9.935283 | 12 | 30 | |
| | 40 | 9.705612 | 36 | 9.770341 | 48 | 0.229659 | 9.935271 | 12 | 20 | |
| | 50 | 9.705648 | 35 | 9.770389 | 48 | 0.229611 | 9.935258 | 12 | 10 | |
| 31 | 0 | 9.705683 | 36 | 9.770437 | 48 | 0.229563 | 9.935246 | 12 | 0 | 29 |
| | 10 | 9.705719 | 36 | 9.770485 | 49 | 0.229515 | 9.935234 | 12 | 50 | |
| | 20 | 9.705755 | 35 | 9.770534 | 48 | 0.229466 | 9.935221 | 12 | 40 | |
| | 30 | 9.705790 | 36 | 9.770582 | 48 | 0.229418 | 9.935209 | 12 | 30 | |
| | 40 | 9.705826 | 36 | 9.770630 | 48 | 0.229370 | 9.935196 | 12 | 20 | |
| | 50 | 9.705862 | 36 | 9.770678 | 48 | 0.229322 | 9.935184 | 12 | 10 | |
| 32 | 0 | 9.705898 | 35 | 9.770726 | 48 | 0.229274 | 9.935171 | 12 | 0 | 28 |
| | 10 | 9.705933 | 36 | 9.770774 | 48 | 0.229226 | 9.935159 | 12 | 50 | |
| | 20 | 9.705969 | 36 | 9.770822 | 48 | 0.229178 | 9.935147 | 12 | 40 | |
| | 30 | 9.706005 | 35 | 9.770870 | 49 | 0.229130 | 9.935134 | 12 | 30 | |
| | 40 | 9.706040 | 36 | 9.770919 | 48 | 0.229081 | 9.935122 | 12 | 20 | |
| | 50 | 9.706076 | 36 | 9.770967 | 48 | 0.229033 | 9.935109 | 12 | 10 | |
| 33 | 0 | 9.706112 | 35 | 9.771015 | 48 | 0.228985 | 9.935097 | 12 | 0 | 27 |
| | 10 | 9.706147 | 36 | 9.771063 | 48 | 0.228937 | 9.935084 | 12 | 50 | |
| | 20 | 9.706183 | 36 | 9.771111 | 48 | 0.228889 | 9.935072 | 12 | 40 | |
| | 30 | 9.706219 | 35 | 9.771159 | 48 | 0.228841 | 9.935060 | 12 | 30 | |
| | 40 | 9.706254 | 36 | 9.771207 | 48 | 0.228793 | 9.935047 | 12 | 20 | |
| | 50 | 9.706290 | 36 | 9.771255 | 48 | 0.228745 | 9.935035 | 12 | 10 | |
| 34 | 0 | 9.706326 | 35 | 9.771303 | 48 | 0.228697 | 9.935022 | 12 | 0 | 26 |
| | 10 | 9.706361 | 36 | 9.771351 | 48 | 0.228649 | 9.935010 | 12 | 50 | |
| | 20 | 9.706397 | 36 | 9.771399 | 49 | 0.228601 | 9.934997 | 12 | 40 | |
| | 30 | 9.706433 | 35 | 9.771448 | 48 | 0.228552 | 9.934985 | 12 | 30 | |
| | 40 | 9.706468 | 36 | 9.771496 | 48 | 0.228504 | 9.934973 | 12 | 20 | |
| | 50 | 9.706504 | 35 | 9.771544 | 48 | 0.228456 | 9.934960 | 12 | 10 | |
| 35 | 0 | 9.706539 | 36 | 9.771592 | 48 | 0.228408 | 9.934948 | 12 | 0 | 25 |
| | 10 | 9.706575 | 36 | 9.771640 | 48 | 0.228360 | 9.934935 | 12 | 50 | |
| | 20 | 9.706611 | 35 | 9.771688 | 48 | 0.228312 | 9.934923 | 12 | 40 | |
| | 30 | 9.706646 | 36 | 9.771736 | 48 | 0.228264 | 9.934910 | 12 | 30 | |
| | 40 | 9.706682 | 36 | 9.771784 | 48 | 0.228216 | 9.934898 | 12 | 20 | |
| | 50 | 9.706718 | 35 | 9.771832 | 48 | 0.228168 | 9.934885 | 12 | 10 | |
| 36 | 0 | 9.706753 | 36 | 9.771880 | 48 | 0.228120 | 9.934873 | 12 | 0 | 24 |
| | 10 | 9.706789 | 35 | 9.771928 | 48 | 0.228072 | 9.934861 | 12 | 50 | |
| | 20 | 9.706824 | 36 | 9.771976 | 48 | 0.228024 | 9.934848 | 12 | 40 | |
| | 30 | 9.706860 | 35 | 9.772024 | 48 | 0.227976 | 9.934836 | 12 | 30 | |
| | 40 | 9.706895 | 36 | 9.772072 | 48 | 0.227928 | 9.934823 | 12 | 20 | |
| | 50 | 9.706931 | 36 | 9.772120 | 48 | 0.227880 | 9.934811 | 12 | 10 | |
| 37 | 0 | 9.706967 | 35 | 9.772168 | 48 | 0.227832 | 9.934798 | 12 | 0 | 23 |
| | 10 | 9.707002 | 36 | 9.772216 | 48 | 0.227784 | 9.934786 | 12 | 50 | |
| | 20 | 9.707038 | 35 | 9.772264 | 48 | 0.227736 | 9.934773 | 12 | 40 | |
| | 30 | 9.707073 | 36 | 9.772312 | 49 | 0.227688 | 9.934761 | 12 | 30 | |
| | 40 | 9.707109 | 36 | 9.772361 | 48 | 0.227639 | 9.934748 | 12 | 20 | |
| | 50 | 9.707145 | 35 | 9.772409 | 48 | 0.227591 | 9.934736 | 12 | 10 | |
| 38 | 0 | 9.707180 | 36 | 9.772457 | 48 | 0.227543 | 9.934723 | 12 | 0 | 22 |
| | 10 | 9.707216 | 35 | 9.772505 | 48 | 0.227495 | 9.934711 | 12 | 50 | |
| | 20 | 9.707251 | 36 | 9.772553 | 48 | 0.227447 | 9.934699 | 12 | 40 | |
| | 30 | 9.707287 | 35 | 9.772601 | 48 | 0.227399 | 9.934686 | 12 | 30 | |
| | 40 | 9.707322 | 36 | 9.772649 | 48 | 0.227351 | 9.934674 | 12 | 20 | |
| | 50 | 9.707358 | 35 | 9.772697 | 48 | 0.227303 | 9.934661 | 12 | 10 | |
| 39 | 0 | 9.707392 | 36 | 9.772745 | 48 | 0.227255 | 9.934649 | 12 | 0 | 21 |
| | 10 | 9.707429 | 35 | 9.772793 | 48 | 0.227207 | 9.934636 | 12 | 50 | |
| | 20 | 9.707465 | 36 | 9.772841 | 48 | 0.227159 | 9.934624 | 12 | 40 | |
| | 30 | 9.707501 | 35 | 9.772889 | 48 | 0.227111 | 9.934611 | 12 | 30 | |
| | 40 | 9.707537 | 36 | 9.772937 | 48 | 0.227063 | 9.934599 | 12 | 20 | |
| | 50 | 9.707571 | 35 | 9.772985 | 48 | 0.227015 | 9.934586 | 12 | 10 | |
| 40 | 0 | 9.707606 | 36 | 9.773033 | 48 | 0.226967 | 9.934574 | 12 | 0 | 20 |

49
 1 4.9
 2 9.8
 3 14.7
 4 19.6
 5 24.5
 6 29.4
 7 34.3
 8 39.2
 9 44.1
 48
 1 4.8
 2 9.6
 3 14.4
 4 19.2
 5 24.0
 6 28.8
 7 33.6
 8 38.4
 9 43.2
 *
 36
 1 3.6
 2 7.2
 3 10.8
 4 14.4
 5 18.0
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 7 25.2
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 5 17.5
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 13
 1 1.3
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 6 7.8
 7 9.1
 8 10.4
 9 11.7

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|-------|----------|----------|----|----|----|
| 48 | 40 | 0 9.707606 | 36 | 9.773033 | 48 | 0.226967 | 9.934574 | 13 | 0 | 20 |
| 1 4.8 | 10 | 9.707642 | 35 | 9.773081 | 48 | 0.226919 | 9.934561 | 12 | 50 | |
| 2 9.6 | 20 | 9.707677 | 35 | 9.773129 | 48 | 0.226871 | 9.934549 | 12 | 40 | |
| 3 14.4 | 30 | 9.707713 | 36 | 9.773177 | 48 | 0.226823 | 9.934536 | 13 | 30 | |
| 4 19.2 | 40 | 9.707748 | 35 | 9.773225 | 48 | 0.226775 | 9.934524 | 12 | 20 | |
| 5 24.0 | 50 | 9.707784 | 36 | 9.773273 | 48 | 0.226727 | 9.934511 | 13 | 10 | |
| 6 28.8 | 41 | 0 9.707819 | 35 | 9.773321 | 48 | 0.226679 | 9.934499 | 12 | 0 | 19 |
| 7 33.6 | 10 | 9.707855 | 35 | 9.773369 | 48 | 0.226631 | 9.934486 | 13 | 50 | |
| 8 38.4 | 20 | 9.707890 | 35 | 9.773417 | 48 | 0.226583 | 9.934474 | 12 | 40 | |
| 9 43.2 | 30 | 9.707926 | 36 | 9.773465 | 48 | 0.226535 | 9.934461 | 13 | 30 | |
| | 40 | 9.707961 | 35 | 9.773512 | 48 | 0.226488 | 9.934449 | 12 | 20 | |
| | 50 | 9.707997 | 36 | 9.773560 | 48 | 0.226440 | 9.934436 | 13 | 10 | |
| 47 | 42 | 0 9.708032 | 35 | 9.773608 | 48 | 0.226392 | 9.934424 | 12 | 0 | 18 |
| 1 4.7 | 10 | 9.708068 | 36 | 9.773656 | 48 | 0.226344 | 9.934411 | 13 | 50 | |
| 2 9.4 | 20 | 9.708103 | 35 | 9.773704 | 48 | 0.226296 | 9.934399 | 12 | 40 | |
| 3 14.1 | 30 | 9.708139 | 36 | 9.773752 | 48 | 0.226248 | 9.934386 | 13 | 30 | |
| 4 18.8 | 40 | 9.708174 | 35 | 9.773800 | 48 | 0.226200 | 9.934374 | 12 | 20 | |
| 5 23.5 | 50 | 9.708210 | 36 | 9.773848 | 48 | 0.226152 | 9.934361 | 13 | 10 | |
| 6 28.2 | 43 | 0 9.708245 | 35 | 9.773896 | 48 | 0.226104 | 9.934349 | 12 | 0 | 17 |
| 7 32.9 | 10 | 9.708280 | 36 | 9.773944 | 48 | 0.226056 | 9.934336 | 13 | 50 | |
| 8 37.6 | 20 | 9.708316 | 35 | 9.773992 | 48 | 0.226008 | 9.934324 | 12 | 40 | |
| 9 42.3 | 30 | 9.708351 | 35 | 9.774040 | 48 | 0.225960 | 9.934311 | 13 | 30 | |
| * | 40 | 9.708387 | 36 | 9.774088 | 48 | 0.225912 | 9.934299 | 12 | 20 | |
| | 50 | 9.708422 | 35 | 9.774136 | 48 | 0.225864 | 9.934286 | 13 | 10 | |
| | 44 | 0 9.708458 | 35 | 9.774184 | 48 | 0.225816 | 9.934274 | 12 | 0 | 16 |
| | 10 | 9.708493 | 35 | 9.774232 | 48 | 0.225768 | 9.934261 | 13 | 50 | |
| 36 | 20 | 9.708528 | 35 | 9.774280 | 48 | 0.225720 | 9.934249 | 12 | 40 | |
| 1 3.6 | 30 | 9.708564 | 36 | 9.774328 | 48 | 0.225672 | 9.934236 | 13 | 30 | |
| 2 7.2 | 40 | 9.708599 | 35 | 9.774375 | 48 | 0.225625 | 9.934224 | 12 | 20 | |
| 3 10.8 | 50 | 9.708635 | 36 | 9.774423 | 48 | 0.225577 | 9.934211 | 13 | 10 | |
| 4 14.4 | 45 | 0 9.708670 | 35 | 9.774471 | 48 | 0.225529 | 9.934199 | 12 | 0 | 15 |
| 5 18.0 | 10 | 9.708705 | 36 | 9.774519 | 48 | 0.225481 | 9.934186 | 13 | 50 | |
| 6 21.6 | 20 | 9.708741 | 35 | 9.774567 | 48 | 0.225433 | 9.934174 | 12 | 40 | |
| 7 25.2 | 30 | 9.708776 | 35 | 9.774615 | 48 | 0.225385 | 9.934161 | 13 | 30 | |
| 8 28.8 | 40 | 9.708811 | 35 | 9.774663 | 48 | 0.225337 | 9.934148 | 12 | 20 | |
| 9 32.4 | 50 | 9.708847 | 36 | 9.774711 | 48 | 0.225289 | 9.934136 | 13 | 10 | |
| | 46 | 0 9.708882 | 35 | 9.774759 | 48 | 0.225241 | 9.934123 | 12 | 0 | 14 |
| | 10 | 9.708918 | 36 | 9.774807 | 48 | 0.225193 | 9.934111 | 13 | 50 | |
| 35 | 20 | 9.708953 | 35 | 9.774855 | 48 | 0.225145 | 9.934098 | 12 | 40 | |
| 1 3.5 | 30 | 9.708988 | 35 | 9.774902 | 48 | 0.225098 | 9.934086 | 13 | 30 | |
| 2 7.0 | 40 | 9.709024 | 36 | 9.774950 | 48 | 0.225050 | 9.934073 | 12 | 20 | |
| 3 10.5 | 50 | 9.709059 | 35 | 9.774998 | 48 | 0.225002 | 9.934061 | 13 | 10 | |
| 4 14.0 | 47 | 0 9.709094 | 35 | 9.775046 | 48 | 0.224954 | 9.934048 | 12 | 0 | 13 |
| 5 17.5 | 10 | 9.709130 | 36 | 9.775094 | 48 | 0.224906 | 9.934036 | 13 | 50 | |
| 6 21.0 | 20 | 9.709165 | 35 | 9.775142 | 48 | 0.224858 | 9.934023 | 12 | 40 | |
| 7 24.5 | 30 | 9.709200 | 35 | 9.775190 | 48 | 0.224810 | 9.934011 | 13 | 30 | |
| 8 28.0 | 40 | 9.709236 | 36 | 9.775238 | 48 | 0.224762 | 9.933998 | 12 | 20 | |
| 9 31.5 | 50 | 9.709271 | 35 | 9.775286 | 48 | 0.224714 | 9.933985 | 13 | 10 | |
| * | 48 | 0 9.709306 | 35 | 9.775333 | 47 | 0.224667 | 9.933973 | 12 | 0 | 12 |
| | 10 | 9.709342 | 36 | 9.775381 | 48 | 0.224619 | 9.933960 | 13 | 50 | |
| | 20 | 9.709377 | 35 | 9.775429 | 48 | 0.224571 | 9.933948 | 12 | 40 | |
| 12 | 30 | 9.709412 | 35 | 9.775477 | 48 | 0.224523 | 9.933935 | 13 | 30 | |
| 1 1.2 | 40 | 9.709448 | 36 | 9.775525 | 48 | 0.224475 | 9.933923 | 12 | 20 | |
| 2 2.4 | 50 | 9.709483 | 35 | 9.775573 | 48 | 0.224427 | 9.933910 | 13 | 10 | |
| 3 3.6 | 49 | 0 9.709518 | 35 | 9.775621 | 48 | 0.224379 | 9.933898 | 12 | 0 | 11 |
| 4 4.8 | 10 | 9.709553 | 35 | 9.775668 | 47 | 0.224332 | 9.933885 | 13 | 50 | |
| 5 6.0 | 20 | 9.709589 | 36 | 9.775716 | 48 | 0.224284 | 9.933872 | 12 | 40 | |
| 6 7.2 | 30 | 9.709624 | 35 | 9.775764 | 48 | 0.224236 | 9.933860 | 13 | 30 | |
| 7 8.4 | 40 | 9.709659 | 35 | 9.775812 | 48 | 0.224188 | 9.933847 | 12 | 20 | |
| 8 9.6 | 50 | 9.709695 | 36 | 9.775860 | 48 | 0.224140 | 9.933835 | 13 | 10 | |
| 9 10.8 | 50 | 9.709730 | 35 | 9.775908 | 48 | 0.224092 | 9.933822 | 13 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.709730 | 35 | 9.775908 | 48 | 0.224092 | 9.933822 | 12 | 0 | 10 |
| | 10 | 9.709765 | 35 | 9.775956 | 47 | 0.224044 | 9.933810 | 13 | 50 | 48 |
| | 20 | 9.709800 | 35 | 9.776003 | 47 | 0.223997 | 9.933797 | 13 | 40 | 1 4.8 |
| | 30 | 9.709836 | 36 | 9.776051 | 48 | 0.223949 | 9.933784 | 13 | 30 | 2 9.6 |
| | 40 | 9.709871 | 35 | 9.776099 | 48 | 0.223901 | 9.933772 | 12 | 20 | 3 14.4 |
| | 50 | 9.709906 | 35 | 9.776147 | 48 | 0.223853 | 9.933759 | 13 | 10 | 4 19.2 |
| 51 | 0 | 9.709941 | 36 | 9.776195 | 48 | 0.223805 | 9.933747 | 12 | 0 | 5 24.0 |
| | 10 | 9.709977 | 35 | 9.776243 | 47 | 0.223757 | 9.933734 | 13 | 50 | 6 28.8 |
| | 20 | 9.710012 | 35 | 9.776290 | 47 | 0.223710 | 9.933722 | 12 | 40 | 7 33.6 |
| | 30 | 9.710047 | 35 | 9.776338 | 48 | 0.223662 | 9.933709 | 13 | 30 | 8 38.4 |
| | 40 | 9.710082 | 35 | 9.776386 | 48 | 0.223614 | 9.933696 | 13 | 20 | 9 43.2 |
| | 50 | 9.710118 | 36 | 9.776434 | 48 | 0.223566 | 9.933684 | 12 | 10 | |
| 52 | 0 | 9.710153 | 35 | 9.776482 | 47 | 0.223518 | 9.933671 | 13 | 0 | 47 |
| | 10 | 9.710188 | 35 | 9.776529 | 47 | 0.223471 | 9.933659 | 12 | 50 | 1 4.7 |
| | 20 | 9.710223 | 36 | 9.776577 | 48 | 0.223423 | 9.933646 | 13 | 40 | 2 9.4 |
| | 30 | 9.710259 | 35 | 9.776625 | 48 | 0.223375 | 9.933633 | 13 | 30 | 3 14.1 |
| | 40 | 9.710294 | 35 | 9.776673 | 48 | 0.223327 | 9.933621 | 12 | 20 | 4 18.8 |
| | 50 | 9.710329 | 35 | 9.776721 | 48 | 0.223279 | 9.933608 | 13 | 10 | 5 23.5 |
| 53 | 0 | 9.710364 | 35 | 9.776768 | 47 | 0.223232 | 9.933596 | 12 | 0 | 6 28.2 |
| | 10 | 9.710399 | 36 | 9.776816 | 48 | 0.223184 | 9.933583 | 13 | 50 | 7 32.9 |
| | 20 | 9.710435 | 35 | 9.776864 | 48 | 0.223136 | 9.933571 | 12 | 40 | 8 37.6 |
| | 30 | 9.710470 | 35 | 9.776912 | 48 | 0.223088 | 9.933558 | 13 | 30 | 9 42.3 |
| | 40 | 9.710505 | 35 | 9.776960 | 48 | 0.223040 | 9.933545 | 13 | 20 | |
| | 50 | 9.710540 | 35 | 9.777007 | 47 | 0.222993 | 9.933533 | 12 | 10 | |
| 54 | 0 | 9.710575 | 36 | 9.777055 | 48 | 0.222945 | 9.933520 | 13 | 0 | * |
| | 10 | 9.710611 | 35 | 9.777103 | 48 | 0.222897 | 9.933508 | 12 | 50 | |
| | 20 | 9.710646 | 35 | 9.777151 | 48 | 0.222849 | 9.933495 | 13 | 40 | 36 |
| | 30 | 9.710681 | 35 | 9.777199 | 48 | 0.222801 | 9.933482 | 13 | 30 | 1 3.6 |
| | 40 | 9.710716 | 35 | 9.777246 | 47 | 0.222754 | 9.933470 | 12 | 20 | 2 7.2 |
| | 50 | 9.710751 | 35 | 9.777294 | 48 | 0.222706 | 9.933457 | 13 | 10 | 3 10.8 |
| 55 | 0 | 9.710786 | 36 | 9.777342 | 48 | 0.222658 | 9.933445 | 12 | 0 | 4 14.4 |
| | 10 | 9.710822 | 35 | 9.777390 | 47 | 0.222610 | 9.933432 | 13 | 50 | 5 18.0 |
| | 20 | 9.710857 | 35 | 9.777437 | 47 | 0.222563 | 9.933419 | 12 | 40 | 6 21.6 |
| | 30 | 9.710892 | 35 | 9.777485 | 48 | 0.222515 | 9.933407 | 13 | 30 | 7 25.2 |
| | 40 | 9.710927 | 35 | 9.777533 | 48 | 0.222467 | 9.933394 | 13 | 20 | 8 28.8 |
| | 50 | 9.710962 | 35 | 9.777581 | 48 | 0.222419 | 9.933381 | 13 | 10 | 9 32.4 |
| 56 | 0 | 9.710997 | 35 | 9.777628 | 47 | 0.222372 | 9.933369 | 12 | 0 | |
| | 10 | 9.711032 | 35 | 9.777676 | 48 | 0.222324 | 9.933356 | 13 | 50 | 35 |
| | 20 | 9.711067 | 35 | 9.777724 | 48 | 0.222276 | 9.933344 | 12 | 40 | 1 3.5 |
| | 30 | 9.711103 | 36 | 9.777772 | 48 | 0.222228 | 9.933331 | 13 | 30 | 2 7.0 |
| | 40 | 9.711138 | 35 | 9.777819 | 47 | 0.222181 | 9.933318 | 13 | 20 | 3 10.5 |
| | 50 | 9.711173 | 35 | 9.777867 | 48 | 0.222133 | 9.933306 | 12 | 10 | 4 14.0 |
| 57 | 0 | 9.711208 | 35 | 9.777915 | 48 | 0.222085 | 9.933293 | 13 | 0 | 5 17.5 |
| | 10 | 9.711243 | 35 | 9.777963 | 47 | 0.222037 | 9.933280 | 13 | 50 | 6 21.0 |
| | 20 | 9.711278 | 35 | 9.778010 | 47 | 0.221990 | 9.933268 | 12 | 40 | 7 24.5 |
| | 30 | 9.711313 | 35 | 9.778058 | 48 | 0.221942 | 9.933255 | 13 | 30 | 8 28.0 |
| | 40 | 9.711348 | 35 | 9.778106 | 48 | 0.221894 | 9.933243 | 12 | 20 | 9 31.5 |
| | 50 | 9.711383 | 35 | 9.778154 | 48 | 0.221846 | 9.933230 | 13 | 10 | |
| 58 | 0 | 9.711419 | 36 | 9.778201 | 47 | 0.221799 | 9.933217 | 13 | 0 | * |
| | 10 | 9.711454 | 35 | 9.778249 | 48 | 0.221751 | 9.933205 | 12 | 50 | |
| | 20 | 9.711489 | 35 | 9.778297 | 48 | 0.221703 | 9.933192 | 13 | 40 | |
| | 30 | 9.711524 | 35 | 9.778344 | 47 | 0.221656 | 9.933179 | 13 | 30 | 13 |
| | 40 | 9.711559 | 35 | 9.778392 | 48 | 0.221608 | 9.933167 | 12 | 20 | 1 1.3 |
| | 50 | 9.711594 | 35 | 9.778440 | 48 | 0.221560 | 9.933154 | 13 | 10 | 2 2.6 |
| 59 | 0 | 9.711629 | 35 | 9.778488 | 48 | 0.221512 | 9.933141 | 13 | 0 | 3 3.9 |
| | 10 | 9.711664 | 35 | 9.778535 | 47 | 0.221465 | 9.933129 | 12 | 50 | 4 5.2 |
| | 20 | 9.711699 | 35 | 9.778583 | 48 | 0.221417 | 9.933116 | 13 | 40 | 5 6.5 |
| | 30 | 9.711734 | 35 | 9.778631 | 48 | 0.221369 | 9.933104 | 12 | 30 | 6 7.8 |
| | 40 | 9.711769 | 35 | 9.778678 | 47 | 0.221322 | 9.933091 | 13 | 20 | 7 9.1 |
| | 50 | 9.711804 | 35 | 9.778726 | 48 | 0.221274 | 9.933078 | 13 | 10 | 8 10.4 |
| 60 | 0 | 9.711839 | 35 | 9.778774 | 48 | 0.221226 | 9.933066 | 12 | 0 | 9 11.7 |

| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |
|---|---|-----|----|------|-------|------|-----|----|---|---|
|---|---|-----|----|------|-------|------|-----|----|---|---|

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 48 | 0 | 9.711839 | 35 | 9.778774 | 47 | 0.221226 | 9.933066 | 13 | 0 | 60 |
| 1 4.8 | 10 | 9.711874 | 35 | 9.778821 | 48 | 0.221179 | 9.933053 | 13 | 50 | |
| 2 9.6 | 20 | 9.711909 | 35 | 9.778869 | 48 | 0.221131 | 9.933040 | 12 | 40 | |
| 3 14.4 | 30 | 9.711944 | 35 | 9.778917 | 47 | 0.221083 | 9.933028 | 13 | 30 | |
| 4 19.2 | 40 | 9.711979 | 35 | 9.778964 | 48 | 0.221036 | 9.933015 | 13 | 20 | |
| 5 24.0 | 50 | 9.712014 | 36 | 9.779012 | 48 | 0.220988 | 9.933002 | 12 | 10 | |
| 6 28.8 | 1 | 9.712050 | 35 | 9.779060 | 48 | 0.220940 | 9.932990 | 13 | 0 | 59 |
| 7 33.6 | 10 | 9.712085 | 35 | 9.779108 | 47 | 0.220892 | 9.932977 | 13 | 50 | |
| 8 38.4 | 20 | 9.712120 | 35 | 9.779155 | 48 | 0.220845 | 9.932964 | 12 | 40 | |
| 9 43.2 | 30 | 9.712155 | 35 | 9.779203 | 48 | 0.220797 | 9.932952 | 13 | 30 | |
| | 40 | 9.712190 | 35 | 9.779251 | 47 | 0.220749 | 9.932939 | 13 | 20 | |
| | 50 | 9.712225 | 35 | 9.779298 | 48 | 0.220702 | 9.932926 | 12 | 10 | |
| 47 | 2 | 9.712260 | 35 | 9.779346 | 48 | 0.220654 | 9.932914 | 13 | 0 | 58 |
| 1 4.7 | 10 | 9.712295 | 35 | 9.779394 | 47 | 0.220606 | 9.932901 | 13 | 50 | |
| 2 9.4 | 20 | 9.712330 | 35 | 9.779441 | 48 | 0.220559 | 9.932888 | 12 | 40 | |
| 3 14.1 | 30 | 9.712365 | 35 | 9.779489 | 48 | 0.220511 | 9.932876 | 13 | 30 | |
| 4 18.8 | 40 | 9.712400 | 35 | 9.779537 | 47 | 0.220463 | 9.932863 | 13 | 20 | |
| 5 23.5 | 50 | 9.712434 | 34 | 9.779584 | 48 | 0.220415 | 9.932851 | 12 | 10 | |
| 6 28.2 | 3 | 9.712469 | 35 | 9.779632 | 47 | | | 13 | 0 | 57 |
| 7 32.9 | 10 | 9.712504 | 35 | 9.779679 | 48 | 0.220321 | 9.932825 | 13 | 50 | |
| 8 37.6 | 20 | 9.712539 | 35 | 9.779727 | 48 | 0.220273 | 9.932812 | 12 | 40 | |
| 9 42.3 | 30 | 9.712574 | 35 | 9.779775 | 48 | 0.220225 | 9.932800 | 13 | 30 | |
| * | 40 | 9.712609 | 35 | 9.779822 | 47 | 0.220178 | 9.932787 | 13 | 20 | |
| | 50 | 9.712644 | 35 | 9.779870 | 48 | 0.220130 | 9.932774 | 12 | 10 | |
| | 4 | 9.712679 | 35 | 9.779918 | 47 | 0.220082 | 9.932762 | 13 | 0 | 56 |
| 36 | 10 | 9.712714 | 35 | 9.779965 | 48 | 0.220035 | 9.932749 | 13 | 50 | |
| 1 3.6 | 20 | 9.712749 | 35 | 9.780013 | 48 | 0.219987 | 9.932736 | 12 | 40 | |
| 2 7.2 | 30 | 9.712784 | 35 | 9.780061 | 48 | 0.219939 | 9.932724 | 13 | 30 | |
| 3 10.8 | 40 | 9.712819 | 35 | 9.780108 | 47 | 0.219892 | 9.932711 | 13 | 20 | |
| 4 14.4 | 50 | 9.712854 | 35 | 9.780156 | 48 | 0.219844 | 9.932698 | 13 | 10 | |
| 5 18.0 | 5 | 9.712889 | 35 | 9.780203 | 47 | 0.219797 | 9.932685 | 12 | 0 | 55 |
| 6 21.6 | 10 | 9.712924 | 35 | 9.780251 | 48 | 0.219749 | 9.932673 | 13 | 50 | |
| 7 25.2 | 20 | 9.712959 | 35 | 9.780299 | 48 | 0.219701 | 9.932660 | 13 | 40 | |
| 8 28.8 | 30 | 9.712994 | 35 | 9.780346 | 47 | 0.219654 | 9.932647 | 12 | 30 | |
| 9 32.4 | 40 | 9.713029 | 35 | 9.780394 | 48 | 0.219606 | 9.932635 | 13 | 20 | |
| | 50 | 9.713063 | 34 | 9.780441 | 48 | 0.219558 | 9.932622 | 13 | 10 | |
| | 6 | 9.713098 | 35 | 9.780489 | 48 | | | 12 | 0 | 54 |
| 35 | 10 | 9.713133 | 35 | 9.780537 | 47 | 0.219463 | 9.932597 | 13 | 50 | |
| 1 3.5 | 20 | 9.713168 | 35 | 9.780584 | 48 | 0.219416 | 9.932584 | 13 | 40 | |
| 2 7.0 | 30 | 9.713203 | 35 | 9.780632 | 47 | 0.219368 | 9.932571 | 13 | 30 | |
| 3 10.5 | 40 | 9.713238 | 35 | 9.780679 | 48 | 0.219321 | 9.932558 | 12 | 20 | |
| 4 14.0 | 50 | 9.713273 | 35 | 9.780727 | 48 | 0.219273 | 9.932546 | 13 | 10 | |
| 5 17.5 | 7 | 9.713308 | 35 | 9.780775 | 47 | 0.219225 | 9.932533 | 13 | 0 | 53 |
| 6 21.0 | 10 | 9.713343 | 35 | 9.780822 | 48 | 0.219178 | 9.932520 | 12 | 50 | |
| 7 24.5 | 20 | 9.713377 | 34 | 9.780870 | 47 | 0.219130 | 9.932508 | 13 | 40 | |
| 8 28.0 | 30 | 9.713412 | 35 | 9.780917 | 47 | 0.219083 | 9.932495 | 13 | 30 | |
| 9 31.5 | 40 | 9.713447 | 35 | 9.780965 | 48 | 0.219035 | 9.932482 | 13 | 20 | |
| * | 50 | 9.713482 | 35 | 9.781013 | 47 | 0.218987 | 9.932469 | 12 | 10 | |
| | 8 | 9.713517 | 35 | 9.781060 | 48 | 0.218940 | 9.932457 | 13 | 0 | 52 |
| | 10 | 9.713552 | 35 | 9.781108 | 48 | 0.218892 | 9.932444 | 13 | 50 | |
| 12 | 20 | 9.713587 | 35 | 9.781155 | 48 | 0.218845 | 9.932431 | 12 | 40 | |
| 1 1.2 | 30 | 9.713621 | 34 | 9.781203 | 47 | 0.218797 | 9.932419 | 13 | 30 | |
| 2 2.4 | 40 | 9.713656 | 35 | 9.781250 | 47 | 0.218750 | 9.932406 | 13 | 20 | |
| 3 3.6 | 50 | 9.713691 | 35 | 9.781298 | 48 | 0.218702 | 9.932393 | 13 | 10 | |
| 4 4.8 | 9 | 9.713726 | 35 | 9.781346 | 48 | 0.218654 | 9.932380 | 12 | 0 | 51 |
| 5 6.0 | 10 | 9.713761 | 35 | 9.781393 | 47 | 0.218607 | 9.932368 | 13 | 50 | |
| 6 7.2 | 20 | 9.713796 | 35 | 9.781441 | 48 | 0.218559 | 9.932355 | 13 | 40 | |
| 7 8.4 | 30 | 9.713830 | 34 | 9.781488 | 47 | 0.218512 | 9.932342 | 13 | 30 | |
| 8 9.6 | 40 | 9.713865 | 35 | 9.781536 | 48 | 0.218464 | 9.932329 | 13 | 20 | |
| 9 10.8 | 50 | 9.713900 | 35 | 9.781583 | 47 | 0.218417 | 9.932317 | 12 | 10 | |
| | 10 | 9.713935 | 35 | 9.781631 | 48 | 0.218369 | 9.932304 | 13 | 0 | 50 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 10 | 0 | 9.713935 | 35 | 9.781631 | 47 | 0.218369 | 9.932304 | 13 | 0 | 50 |
| | 10 | 9.713970 | 35 | 9.781678 | 48 | 0.218322 | 9.932291 | 12 | 50 | 48 |
| | 20 | 9.714005 | 34 | 9.781726 | 48 | 0.218274 | 9.932279 | 13 | 40 | 1 4.8 |
| | 30 | 9.714039 | 34 | 9.781774 | 48 | 0.218226 | 9.932266 | 13 | 30 | 2 9.6 |
| | 40 | 9.714074 | 35 | 9.781821 | 47 | 0.218179 | 9.932253 | 13 | 20 | 3 14.4 |
| | 50 | 9.714109 | 35 | 9.781869 | 48 | 0.218131 | 9.932240 | 13 | 10 | 4 19.2 |
| 11 | 0 | 9.714144 | 35 | 9.781916 | 47 | 0.218084 | 9.932228 | 12 | 0 | 5 24.0 |
| | 10 | 9.714179 | 35 | 9.781964 | 48 | 0.218036 | 9.932215 | 13 | 50 | 6 28.8 |
| | 20 | 9.714213 | 34 | 9.782011 | 47 | 0.217989 | 9.932202 | 13 | 40 | 7 33.6 |
| | 30 | 9.714248 | 35 | 9.782059 | 48 | 0.217941 | 9.932189 | 13 | 30 | 8 38.4 |
| | 40 | 9.714283 | 35 | 9.782106 | 47 | 0.217894 | 9.932177 | 12 | 20 | 9 43.2 |
| | 50 | 9.714318 | 35 | 9.782154 | 48 | 0.217846 | 9.932164 | 13 | 10 | |
| 12 | 0 | 9.714352 | 34 | 9.782201 | 47 | 0.217799 | 9.932151 | 13 | 0 | 47 |
| | 10 | 9.714387 | 35 | 9.782249 | 48 | 0.217751 | 9.932138 | 13 | 50 | 1 +7 |
| | 20 | 9.714422 | 35 | 9.782296 | 47 | 0.217704 | 9.932126 | 12 | 40 | 2 9.4 |
| | 30 | 9.714457 | 35 | 9.782344 | 48 | 0.217656 | 9.932113 | 13 | 30 | 3 14.1 |
| | 40 | 9.714491 | 34 | 9.782391 | 47 | 0.217609 | 9.932100 | 13 | 20 | 4 18.8 |
| | 50 | 9.714526 | 35 | 9.782439 | 48 | 0.217561 | 9.932087 | 13 | 10 | 5 23.5 |
| 13 | 0 | 9.714561 | 35 | 9.782486 | 47 | 0.217514 | 9.932075 | 12 | 0 | 6 28.2 |
| | 10 | 9.714596 | 35 | 9.782534 | 48 | 0.217466 | 9.932062 | 13 | 50 | 7 32.9 |
| | 20 | 9.714630 | 34 | 9.782581 | 47 | 0.217419 | 9.932049 | 13 | 40 | 8 37.6 |
| | 30 | 9.714665 | 35 | 9.782629 | 48 | 0.217371 | 9.932036 | 13 | 30 | 9 42.3 |
| | 40 | 9.714700 | 35 | 9.782676 | 47 | 0.217324 | 9.932024 | 12 | 20 | |
| | 50 | 9.714735 | 35 | 9.782724 | 48 | 0.217276 | 9.932011 | 13 | 10 | |
| 14 | 0 | 9.714769 | 34 | 9.782771 | 47 | 0.217229 | 9.931998 | 13 | 0 | * |
| | 10 | 9.714804 | 35 | 9.782819 | 48 | 0.217181 | 9.931985 | 13 | 50 | |
| | 20 | 9.714839 | 35 | 9.782866 | 47 | 0.217134 | 9.931972 | 13 | 40 | 35 |
| | 30 | 9.714873 | 34 | 9.782914 | 48 | 0.217086 | 9.931960 | 12 | 30 | 1 3.5 |
| | 40 | 9.714908 | 35 | 9.782961 | 47 | 0.217039 | 9.931947 | 13 | 20 | 2 7.0 |
| | 50 | 9.714943 | 35 | 9.783009 | 48 | 0.216991 | 9.931934 | 13 | 10 | 3 10.5 |
| 15 | 0 | 9.714978 | 35 | 9.783056 | 47 | 0.216944 | 9.931921 | 13 | 0 | 4 14.0 |
| | 10 | 9.715012 | 34 | 9.783104 | 48 | 0.216896 | 9.931909 | 12 | 50 | 5 17.5 |
| | 20 | 9.715047 | 35 | 9.783151 | 47 | 0.216849 | 9.931896 | 13 | 40 | 6 21.0 |
| | 30 | 9.715082 | 35 | 9.783199 | 48 | 0.216801 | 9.931883 | 13 | 30 | 7 24.5 |
| | 40 | 9.715116 | 34 | 9.783246 | 47 | 0.216754 | 9.931870 | 13 | 20 | 8 28.0 |
| | 50 | 9.715151 | 35 | 9.783294 | 48 | 0.216706 | 9.931857 | 13 | 10 | 9 31.5 |
| 16 | 0 | 9.715186 | 35 | 9.783341 | 47 | 0.216659 | 9.931845 | 12 | 0 | |
| | 10 | 9.715220 | 34 | 9.783388 | 47 | 0.216612 | 9.931832 | 13 | 50 | 34 |
| | 20 | 9.715255 | 35 | 9.783436 | 48 | 0.216564 | 9.931819 | 13 | 40 | 1 3.4 |
| | 30 | 9.715290 | 35 | 9.783483 | 47 | 0.216517 | 9.931806 | 13 | 30 | 2 6.8 |
| | 40 | 9.715324 | 34 | 9.783531 | 48 | 0.216469 | 9.931794 | 12 | 20 | 3 10.2 |
| | 50 | 9.715359 | 35 | 9.783578 | 47 | 0.216422 | 9.931781 | 13 | 10 | 4 13.6 |
| 17 | 0 | 9.715394 | 35 | 9.783626 | 48 | 0.216374 | 9.931769 | 13 | 0 | 5 17.0 |
| | 10 | 9.715428 | 34 | 9.783673 | 47 | 0.216327 | 9.931755 | 13 | 50 | 6 20.4 |
| | 20 | 9.715463 | 35 | 9.783721 | 48 | 0.216280 | 9.931742 | 13 | 40 | 7 23.8 |
| | 30 | 9.715498 | 35 | 9.783768 | 47 | 0.216232 | 9.931730 | 12 | 30 | 8 27.2 |
| | 40 | 9.715532 | 34 | 9.783816 | 48 | 0.216184 | 9.931717 | 13 | 20 | 9 30.6 |
| | 50 | 9.715567 | 35 | 9.783863 | 47 | 0.216137 | 9.931704 | 13 | 10 | |
| 18 | 0 | 9.715602 | 35 | 9.783910 | 48 | 0.216090 | 9.931691 | 13 | 0 | * |
| | 10 | 9.715636 | 34 | 9.783958 | 47 | 0.216042 | 9.931678 | 13 | 50 | |
| | 20 | 9.715671 | 35 | 9.784005 | 48 | 0.215995 | 9.931666 | 12 | 40 | 13 |
| | 30 | 9.715705 | 34 | 9.784053 | 47 | 0.215947 | 9.931653 | 13 | 30 | 1 1.3 |
| | 40 | 9.715740 | 35 | 9.784100 | 48 | 0.215900 | 9.931640 | 13 | 20 | 2 2.6 |
| | 50 | 9.715775 | 35 | 9.784148 | 47 | 0.215852 | 9.931627 | 13 | 10 | 3 3.9 |
| 19 | 0 | 9.715809 | 34 | 9.784195 | 48 | 0.215805 | 9.931614 | 13 | 0 | 4 5.2 |
| | 10 | 9.715844 | 35 | 9.784242 | 47 | 0.215758 | 9.931601 | 13 | 50 | 5 6.5 |
| | 20 | 9.715878 | 34 | 9.784290 | 48 | 0.215710 | 9.931589 | 12 | 40 | 6 7.8 |
| | 30 | 9.715913 | 35 | 9.784337 | 47 | 0.215663 | 9.931576 | 13 | 30 | 7 9.1 |
| | 40 | 9.715948 | 34 | 9.784385 | 48 | 0.215615 | 9.931563 | 13 | 20 | 8 10.4 |
| | 50 | 9.715982 | 35 | 9.784432 | 47 | 0.215568 | 9.931550 | 13 | 10 | 9 11.7 |
| 20 | 0 | 9.716017 | 35 | 9.784479 | 47 | 0.215521 | 9.931537 | 13 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | 9.716017 | 34 | 9.784479 | 48 | 0.215521 | 9.931537 | 12 | 0 | 40 |
| 1 4.8 | 10 | 9.716051 | 35 | 9.784527 | 47 | 0.215473 | 9.931525 | 13 | 50 | |
| 2 9.6 | 20 | 9.716086 | 35 | 9.784574 | 48 | 0.215426 | 9.931512 | 13 | 40 | |
| 3 14.4 | 30 | 9.716121 | 35 | 9.784622 | 48 | 0.215378 | 9.931499 | 13 | 30 | |
| 4 19.2 | 40 | 9.716155 | 34 | 9.784669 | 47 | 0.215331 | 9.931486 | 13 | 20 | |
| 5 24.0 | 50 | 9.716190 | 35 | 9.784716 | 48 | 0.215284 | 9.931473 | 13 | 10 | |
| 6 28.8 | 0 | 9.716224 | 34 | 9.784764 | 48 | 0.215236 | 9.931460 | 12 | 0 | 39 |
| 7 33.6 | 10 | 9.716259 | 35 | 9.784811 | 47 | 0.215189 | 9.931448 | 13 | 50 | |
| 8 38.4 | 20 | 9.716293 | 34 | 9.784859 | 48 | 0.215141 | 9.931435 | 13 | 40 | |
| 9 43.2 | 30 | 9.716328 | 35 | 9.784906 | 47 | 0.215094 | 9.931422 | 13 | 30 | |
| | 40 | 9.716362 | 34 | 9.784953 | 48 | 0.215047 | 9.931409 | 13 | 20 | |
| | 50 | 9.716397 | 35 | 9.785001 | 47 | 0.214999 | 9.931396 | 13 | 10 | |
| 47 | 0 | 9.716432 | 35 | 9.785048 | 47 | 0.214952 | 9.931383 | 12 | 0 | 38 |
| 1 4.7 | 10 | 9.716466 | 34 | 9.785095 | 48 | 0.214905 | 9.931371 | 13 | 50 | |
| 2 9.4 | 20 | 9.716501 | 35 | 9.785143 | 47 | 0.214857 | 9.931358 | 13 | 40 | |
| 3 14.1 | 30 | 9.716535 | 34 | 9.785190 | 48 | 0.214810 | 9.931345 | 13 | 30 | |
| 4 18.8 | 40 | 9.716570 | 35 | 9.785238 | 47 | 0.214762 | 9.931332 | 13 | 20 | |
| 5 23.5 | 50 | 9.716604 | 34 | 9.785285 | 48 | 0.214715 | 9.931319 | 13 | 10 | |
| 6 28.2 | 0 | 9.716639 | 35 | 9.785332 | 47 | 0.214668 | 9.931306 | 12 | 0 | 37 |
| 7 32.9 | 10 | 9.716673 | 34 | 9.785380 | 48 | 0.214620 | 9.931294 | 13 | 50 | |
| 8 37.6 | 20 | 9.716708 | 35 | 9.785427 | 47 | 0.214573 | 9.931281 | 13 | 40 | |
| 9 42.3 | 30 | 9.716742 | 34 | 9.785474 | 48 | 0.214526 | 9.931268 | 13 | 30 | |
| | 40 | 9.716777 | 35 | 9.785522 | 47 | 0.214478 | 9.931255 | 13 | 20 | |
| | 50 | 9.716811 | 34 | 9.785569 | 48 | 0.214431 | 9.931242 | 13 | 10 | |
| * | 0 | 9.716846 | 35 | 9.785616 | 47 | 0.214384 | 9.931229 | 12 | 0 | 36 |
| 35 | 10 | 9.716880 | 34 | 9.785664 | 48 | 0.214336 | 9.931217 | 13 | 50 | |
| 1 3.5 | 20 | 9.716915 | 35 | 9.785711 | 47 | 0.214289 | 9.931204 | 13 | 40 | |
| 2 7.0 | 30 | 9.716949 | 34 | 9.785758 | 48 | 0.214242 | 9.931191 | 13 | 30 | |
| 3 10.5 | 40 | 9.716984 | 35 | 9.785806 | 47 | 0.214194 | 9.931178 | 13 | 20 | |
| 4 14.0 | 50 | 9.717018 | 34 | 9.785853 | 48 | 0.214147 | 9.931165 | 13 | 10 | |
| 5 17.5 | 0 | 9.717053 | 35 | 9.785900 | 47 | 0.214100 | 9.931152 | 12 | 0 | 35 |
| 6 21.0 | 10 | 9.717087 | 34 | 9.785948 | 48 | 0.214052 | 9.931139 | 13 | 50 | |
| 7 24.5 | 20 | 9.717122 | 35 | 9.785995 | 47 | 0.214005 | 9.931127 | 13 | 40 | |
| 8 28.0 | 30 | 9.717156 | 34 | 9.786042 | 48 | 0.213958 | 9.931114 | 13 | 30 | |
| 9 31.5 | 40 | 9.717191 | 35 | 9.786090 | 47 | 0.213910 | 9.931101 | 13 | 20 | |
| | 50 | 9.717225 | 34 | 9.786137 | 48 | 0.213863 | 9.931088 | 13 | 10 | |
| 34 | 0 | 9.717259 | 35 | 9.786184 | 47 | 0.213816 | 9.931075 | 12 | 0 | 34 |
| 1 3.4 | 10 | 9.717294 | 34 | 9.786232 | 48 | 0.213768 | 9.931062 | 13 | 50 | |
| 2 6.8 | 20 | 9.717328 | 35 | 9.786279 | 47 | 0.213721 | 9.931049 | 13 | 40 | |
| 3 10.2 | 30 | 9.717363 | 34 | 9.786326 | 48 | 0.213674 | 9.931036 | 13 | 30 | |
| 4 13.6 | 40 | 9.717397 | 35 | 9.786374 | 47 | 0.213626 | 9.931024 | 12 | 20 | |
| 5 17.0 | 50 | 9.717432 | 34 | 9.786421 | 48 | 0.213579 | 9.931011 | 13 | 10 | |
| 6 20.4 | 0 | 9.717466 | 35 | 9.786468 | 47 | 0.213532 | 9.930998 | 12 | 0 | 33 |
| 7 23.8 | 10 | 9.717500 | 34 | 9.786516 | 48 | 0.213485 | 9.930985 | 13 | 50 | |
| 8 27.2 | 20 | 9.717535 | 35 | 9.786563 | 47 | 0.213437 | 9.930972 | 13 | 40 | |
| 9 30.6 | 30 | 9.717569 | 34 | 9.786610 | 48 | 0.213390 | 9.930959 | 13 | 30 | |
| | 40 | 9.717604 | 35 | 9.786657 | 47 | 0.213343 | 9.930946 | 13 | 20 | |
| | 50 | 9.717638 | 34 | 9.786705 | 48 | 0.213295 | 9.930933 | 13 | 10 | |
| * | 0 | 9.717673 | 35 | 9.786752 | 47 | 0.213248 | 9.930921 | 12 | 0 | 32 |
| 12 | 10 | 9.717707 | 34 | 9.786799 | 48 | 0.213201 | 9.930908 | 13 | 50 | |
| 1 1.2 | 20 | 9.717741 | 35 | 9.786847 | 47 | 0.213153 | 9.930895 | 13 | 40 | |
| 2 2.4 | 30 | 9.717776 | 34 | 9.786894 | 48 | 0.213106 | 9.930882 | 13 | 30 | |
| 3 3.6 | 40 | 9.717810 | 35 | 9.786941 | 47 | 0.213059 | 9.930869 | 13 | 20 | |
| 4 4.8 | 50 | 9.717844 | 34 | 9.786988 | 48 | 0.213012 | 9.930856 | 13 | 10 | |
| 5 6.0 | 0 | 9.717879 | 35 | 9.787036 | 47 | 0.212964 | 9.930843 | 12 | 0 | 31 |
| 6 7.2 | 10 | 9.717913 | 34 | 9.787083 | 48 | 0.212917 | 9.930830 | 13 | 50 | |
| 7 8.4 | 20 | 9.717948 | 35 | 9.787130 | 47 | 0.212870 | 9.930817 | 13 | 40 | |
| 8 9.6 | 30 | 9.717982 | 34 | 9.787178 | 48 | 0.212822 | 9.930804 | 13 | 30 | |
| 9 10.8 | 40 | 9.718016 | 35 | 9.787225 | 47 | 0.212775 | 9.930792 | 12 | 20 | |
| | 50 | 9.718051 | 34 | 9.787272 | 48 | 0.212728 | 9.930779 | 13 | 10 | |
| | 0 | 9.718085 | 35 | 9.787319 | 47 | 0.212681 | 9.930766 | 12 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 30 | 0 | 9.718085 | 34 | 9.787319 | 48 | 0.212681 | 9.930766 | 13 | 0 | 30 |
| 10 | 10 | 9.718119 | 35 | 9.787367 | 47 | 0.212633 | 9.930753 | 13 | 50 | 48 |
| 20 | 20 | 9.718154 | 34 | 9.787414 | 47 | 0.212586 | 9.930740 | 13 | 40 | 1 4.8 |
| 30 | 30 | 9.718188 | 35 | 9.787461 | 47 | 0.212539 | 9.930727 | 13 | 30 | 2 9.6 |
| 40 | 40 | 9.718223 | 34 | 9.787508 | 47 | 0.212492 | 9.930714 | 13 | 20 | 3 14.4 |
| 50 | 50 | 9.718257 | 34 | 9.787556 | 48 | 0.212445 | 9.930701 | 13 | 10 | 4 19.2 |
| 31 | 0 | 9.718291 | 35 | 9.787603 | 47 | 0.212397 | 9.930688 | 13 | 0 | 5 24.0 |
| 10 | 10 | 9.718326 | 34 | 9.787650 | 47 | 0.212350 | 9.930675 | 13 | 50 | 6 28.8 |
| 20 | 20 | 9.718360 | 34 | 9.787697 | 47 | 0.212303 | 9.930663 | 12 | 40 | 7 33.6 |
| 30 | 30 | 9.718394 | 34 | 9.787745 | 48 | 0.212255 | 9.930650 | 13 | 30 | 8 38.4 |
| 40 | 40 | 9.718429 | 35 | 9.787792 | 47 | 0.212208 | 9.930637 | 13 | 20 | 9 43.2 |
| 50 | 50 | 9.718463 | 34 | 9.787839 | 47 | 0.212161 | 9.930624 | 13 | 10 | |
| 32 | 0 | 9.718497 | 34 | 9.787886 | 48 | 0.212114 | 9.930611 | 13 | 0 | 28 |
| 10 | 10 | 9.718531 | 35 | 9.787934 | 47 | 0.212066 | 9.930598 | 13 | 50 | 1 4.7 |
| 20 | 20 | 9.718566 | 34 | 9.787981 | 47 | 0.212019 | 9.930585 | 13 | 40 | 2 9.4 |
| 30 | 30 | 9.718600 | 34 | 9.788028 | 47 | 0.211972 | 9.930572 | 13 | 30 | 3 14.1 |
| 40 | 40 | 9.718634 | 34 | 9.788075 | 47 | 0.211925 | 9.930559 | 13 | 20 | 4 18.8 |
| 50 | 50 | 9.718669 | 35 | 9.788122 | 48 | 0.211878 | 9.930546 | 13 | 10 | 5 23.5 |
| 33 | 0 | 9.718703 | 34 | 9.788170 | 47 | 0.211830 | 9.930533 | 13 | 0 | 6 28.2 |
| 10 | 10 | 9.718737 | 35 | 9.788217 | 47 | 0.211783 | 9.930520 | 13 | 50 | 7 32.9 |
| 20 | 20 | 9.718772 | 34 | 9.788264 | 47 | 0.211736 | 9.930507 | 13 | 40 | 8 37.6 |
| 30 | 30 | 9.718806 | 34 | 9.788311 | 47 | 0.211689 | 9.930495 | 12 | 30 | 9 42.3 |
| 40 | 40 | 9.718840 | 34 | 9.788359 | 48 | 0.211641 | 9.930482 | 13 | 20 | |
| 50 | 50 | 9.718874 | 34 | 9.788406 | 47 | 0.211594 | 9.930469 | 13 | 10 | * |
| 34 | 0 | 9.718909 | 35 | 9.788453 | 47 | 0.211547 | 9.930456 | 13 | 0 | 26 |
| 10 | 10 | 9.718943 | 34 | 9.788500 | 47 | 0.211500 | 9.930443 | 13 | 50 | |
| 20 | 20 | 9.718977 | 34 | 9.788547 | 47 | 0.211453 | 9.930430 | 13 | 40 | 35 |
| 30 | 30 | 9.719011 | 34 | 9.788595 | 48 | 0.211405 | 9.930417 | 13 | 30 | 1 3.5 |
| 40 | 40 | 9.719046 | 35 | 9.788642 | 47 | 0.211358 | 9.930404 | 13 | 20 | 2 7.0 |
| 50 | 50 | 9.719080 | 34 | 9.788689 | 47 | 0.211311 | 9.930391 | 13 | 10 | 3 10.5 |
| 35 | 0 | 9.719114 | 34 | 9.788736 | 47 | 0.211264 | 9.930378 | 13 | 0 | 4 14.0 |
| 10 | 10 | 9.719148 | 35 | 9.788783 | 47 | 0.211217 | 9.930365 | 13 | 50 | 5 17.5 |
| 20 | 20 | 9.719183 | 34 | 9.788830 | 47 | 0.211170 | 9.930352 | 13 | 40 | 6 21.0 |
| 30 | 30 | 9.719217 | 34 | 9.788878 | 48 | 0.211122 | 9.930339 | 13 | 30 | 7 24.5 |
| 40 | 40 | 9.719251 | 34 | 9.788925 | 47 | 0.211075 | 9.930326 | 13 | 20 | 8 28.0 |
| 50 | 50 | 9.719285 | 34 | 9.788972 | 47 | 0.211028 | 9.930313 | 13 | 10 | 9 31.5 |
| 36 | 0 | 9.719320 | 35 | 9.789019 | 47 | 0.210981 | 9.930300 | 13 | 0 | 24 |
| 10 | 10 | 9.719354 | 34 | 9.789066 | 47 | 0.210934 | 9.930287 | 13 | 50 | 34 |
| 20 | 20 | 9.719388 | 34 | 9.789114 | 48 | 0.210886 | 9.930274 | 13 | 40 | 1 3.4 |
| 30 | 30 | 9.719422 | 34 | 9.789161 | 47 | 0.210839 | 9.930262 | 12 | 30 | 2 6.8 |
| 40 | 40 | 9.719456 | 34 | 9.789208 | 47 | 0.210792 | 9.930249 | 13 | 20 | 3 10.2 |
| 50 | 50 | 9.719491 | 35 | 9.789255 | 47 | 0.210745 | 9.930236 | 13 | 10 | 4 13.6 |
| 37 | 0 | 9.719525 | 34 | 9.789302 | 47 | 0.210698 | 9.930223 | 13 | 0 | 5 17.0 |
| 10 | 10 | 9.719559 | 34 | 9.789349 | 47 | 0.210651 | 9.930210 | 13 | 50 | 6 20.4 |
| 20 | 20 | 9.719593 | 34 | 9.789397 | 48 | 0.210603 | 9.930197 | 13 | 40 | 7 23.8 |
| 30 | 30 | 9.719627 | 34 | 9.789444 | 47 | 0.210556 | 9.930184 | 13 | 30 | 8 27.2 |
| 40 | 40 | 9.719662 | 35 | 9.789491 | 47 | 0.210509 | 9.930171 | 13 | 20 | 9 30.6 |
| 50 | 50 | 9.719696 | 34 | 9.789538 | 47 | 0.210462 | 9.930158 | 13 | 10 | |
| 38 | 0 | 9.719730 | 34 | 9.789585 | 47 | 0.210415 | 9.930145 | 13 | 0 | 22 |
| 10 | 10 | 9.719764 | 34 | 9.789632 | 47 | 0.210368 | 9.930132 | 13 | 50 | * |
| 20 | 20 | 9.719798 | 34 | 9.789679 | 47 | 0.210321 | 9.930119 | 13 | 40 | |
| 30 | 30 | 9.719833 | 35 | 9.789727 | 48 | 0.210273 | 9.930106 | 13 | 30 | 13 |
| 40 | 40 | 9.719867 | 34 | 9.789774 | 47 | 0.210226 | 9.930093 | 13 | 20 | 1 1.3 |
| 50 | 50 | 9.719901 | 34 | 9.789821 | 47 | 0.210179 | 9.930080 | 13 | 10 | 2 2.6 |
| 39 | 0 | 9.719935 | 34 | 9.789868 | 47 | 0.210132 | 9.930067 | 13 | 0 | 3 3.9 |
| 10 | 10 | 9.719969 | 34 | 9.789915 | 47 | 0.210085 | 9.930054 | 13 | 50 | 4 5.2 |
| 20 | 20 | 9.720003 | 34 | 9.789962 | 47 | 0.210038 | 9.930041 | 13 | 40 | 5 6.5 |
| 30 | 30 | 9.720038 | 35 | 9.790009 | 47 | 0.209991 | 9.930028 | 13 | 30 | 6 7.8 |
| 40 | 40 | 9.720072 | 34 | 9.790057 | 48 | 0.209943 | 9.930015 | 13 | 20 | 7 9.1 |
| 50 | 50 | 9.720106 | 34 | 9.790104 | 47 | 0.209896 | 9.930002 | 13 | 10 | 8 10.4 |
| 40 | 0 | 9.720140 | 34 | 9.790151 | 47 | 0.209849 | 9.929989 | 13 | 0 | 9 11.7 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 48 | 0 | 9.720140 | 34 | 9.790151 | 47 | 0.209849 | 9.929989 | 13 | 0 | 20 |
| 1 4.8 | 10 | 9.720174 | 34 | 9.790198 | 47 | 0.209802 | 9.929976 | 13 | 50 | |
| 2 9.6 | 20 | 9.720208 | 34 | 9.790245 | 47 | 0.209755 | 9.929963 | 13 | 40 | |
| 3 14.4 | 30 | 9.720242 | 34 | 9.790292 | 47 | 0.209708 | 9.929950 | 13 | 30 | |
| 4 19.2 | 40 | 9.720276 | 34 | 9.790339 | 47 | 0.209661 | 9.929937 | 13 | 20 | |
| 5 24.0 | 50 | 9.720311 | 34 | 9.790386 | 47 | 0.209614 | 9.929924 | 13 | 10 | |
| 6 28.8 | | | | | 48 | 0.209566 | 9.929911 | 13 | 0 | 19 |
| 7 33.6 | 10 | 9.720345 | 34 | 9.790434 | | 0.209519 | 9.929898 | 13 | 50 | |
| 8 38.4 | 20 | 9.720379 | 34 | 9.790481 | 47 | 0.209472 | 9.929885 | 13 | 40 | |
| 9 43.2 | 30 | 9.720413 | 34 | 9.790528 | 47 | 0.209425 | 9.929872 | 13 | 30 | |
| | 40 | 9.720447 | 34 | 9.790575 | 47 | 0.209378 | 9.929859 | 13 | 20 | |
| | 50 | 9.720481 | 34 | 9.790622 | 47 | 0.209331 | 9.929846 | 13 | 10 | |
| | | 9.720515 | 34 | 9.790669 | 47 | 0.209284 | 9.929833 | 13 | 0 | 18 |
| 47 | 10 | 9.720549 | 34 | 9.790716 | 47 | 0.209237 | 9.929820 | 13 | 50 | |
| 1 4.7 | 20 | 9.720583 | 34 | 9.790763 | 47 | 0.209190 | 9.929807 | 13 | 40 | |
| 2 9.4 | 30 | 9.720617 | 34 | 9.790810 | 47 | 0.209143 | 9.929794 | 13 | 30 | |
| 3 14.1 | 40 | 9.720652 | 35 | 9.790857 | 48 | 0.209095 | 9.929781 | 13 | 20 | |
| 4 18.8 | 50 | 9.720686 | 34 | 9.790905 | 47 | 0.209048 | 9.929768 | 13 | 10 | |
| 5 23.5 | | 9.720720 | 34 | 9.790952 | 47 | 0.209001 | 9.929755 | 13 | 0 | 17 |
| 6 28.2 | 10 | 9.720754 | 34 | 9.790999 | 47 | 0.208954 | 9.929742 | 13 | 50 | |
| 7 32.9 | 20 | 9.720788 | 34 | 9.791046 | 47 | 0.208907 | 9.929729 | 13 | 40 | |
| 8 37.6 | 30 | 9.720822 | 34 | 9.791093 | 47 | 0.208860 | 9.929716 | 13 | 30 | |
| 9 42.3 | 40 | 9.720856 | 34 | 9.791140 | 47 | 0.208813 | 9.929703 | 13 | 20 | |
| | 50 | 9.720890 | 34 | 9.791187 | 47 | 0.208766 | 9.929690 | 13 | 10 | |
| * | | 9.720924 | 34 | 9.791234 | 47 | 0.208719 | 9.929677 | 13 | 0 | 16 |
| | 10 | 9.720958 | 34 | 9.791281 | 47 | 0.208672 | 9.929664 | 13 | 50 | |
| 35 | 20 | 9.720992 | 34 | 9.791328 | 47 | 0.208625 | 9.929651 | 13 | 40 | |
| 1 3.5 | 30 | 9.721026 | 34 | 9.791375 | 47 | 0.208578 | 9.929638 | 13 | 30 | |
| 2 7.0 | 40 | 9.721060 | 34 | 9.791422 | 47 | 0.208531 | 9.929625 | 13 | 20 | |
| 3 10.5 | 50 | 9.721094 | 34 | 9.791469 | 47 | 0.208484 | 9.929612 | 13 | 10 | |
| 4 14.0 | | 9.721128 | 34 | 9.791516 | 47 | 0.208437 | 9.929599 | 13 | 0 | 15 |
| 5 17.5 | 10 | 9.721162 | 34 | 9.791563 | 48 | 0.208390 | 9.929586 | 13 | 50 | |
| 6 21.0 | 20 | 9.721196 | 34 | 9.791611 | 47 | 0.208342 | 9.929573 | 13 | 40 | |
| 7 24.5 | 30 | 9.721230 | 34 | 9.791658 | 47 | 0.208295 | 9.929560 | 13 | 30 | |
| 8 28.0 | 40 | 9.721264 | 34 | 9.791705 | 47 | 0.208248 | 9.929547 | 13 | 20 | |
| 9 31.5 | 50 | 9.721298 | 34 | 9.791752 | 47 | 0.208201 | 9.929534 | 13 | 10 | |
| | | 9.721332 | 34 | 9.791799 | 47 | 0.208154 | 9.929521 | 13 | 0 | 14 |
| 34 | 10 | 9.721366 | 34 | 9.791846 | 47 | 0.208107 | 9.929508 | 13 | 50 | |
| 1 3.4 | 20 | 9.721400 | 34 | 9.791893 | 47 | 0.208060 | 9.929495 | 13 | 40 | |
| 2 6.8 | 30 | 9.721434 | 34 | 9.791940 | 47 | 0.208013 | 9.929482 | 13 | 30 | |
| 3 10.2 | 40 | 9.721468 | 34 | 9.791987 | 47 | 0.207966 | 9.929469 | 13 | 20 | |
| 4 13.6 | 50 | 9.721502 | 34 | 9.792034 | 47 | 0.207919 | 9.929456 | 13 | 10 | |
| 5 17.0 | | 9.721536 | 34 | 9.792081 | 47 | 0.207872 | 9.929442 | 13 | 0 | 13 |
| 6 20.4 | 10 | 9.721570 | 34 | 9.792128 | 47 | 0.207825 | 9.929429 | 13 | 50 | |
| 7 23.8 | 20 | 9.721604 | 34 | 9.792175 | 47 | 0.207778 | 9.929416 | 13 | 40 | |
| 8 27.2 | 30 | 9.721638 | 34 | 9.792222 | 47 | 0.207731 | 9.929403 | 13 | 30 | |
| 9 30.6 | 40 | 9.721672 | 34 | 9.792269 | 47 | 0.207684 | 9.929390 | 13 | 20 | |
| | 50 | 9.721706 | 34 | 9.792316 | 47 | 0.207637 | 9.929377 | 13 | 10 | |
| * | | 9.721740 | 34 | 9.792363 | 47 | 0.207590 | 9.929364 | 13 | 0 | 12 |
| | 10 | 9.721774 | 34 | 9.792410 | 47 | 0.207543 | 9.929351 | 13 | 50 | |
| 13 | 20 | 9.721808 | 34 | 9.792457 | 47 | 0.207496 | 9.929338 | 13 | 40 | |
| 1 1.3 | 30 | 9.721842 | 34 | 9.792504 | 47 | 0.207449 | 9.929325 | 13 | 30 | |
| 2 2.6 | 40 | 9.721876 | 34 | 9.792551 | 47 | 0.207402 | 9.929312 | 13 | 20 | |
| 3 3.9 | 50 | 9.721910 | 34 | 9.792598 | 47 | 0.207355 | 9.929299 | 13 | 10 | |
| 4 5.2 | | 9.721944 | 34 | 9.792645 | 47 | 0.207308 | 9.929286 | 13 | 0 | 11 |
| 5 6.5 | 10 | 9.721978 | 34 | 9.792692 | 47 | 0.207261 | 9.929273 | 13 | 50 | |
| 6 7.8 | 20 | 9.722012 | 34 | 9.792739 | 47 | 0.207214 | 9.929260 | 13 | 40 | |
| 7 9.1 | 30 | 9.722046 | 34 | 9.792786 | 47 | 0.207167 | 9.929247 | 13 | 30 | |
| 8 10.4 | 40 | 9.722080 | 34 | 9.792833 | 47 | 0.207120 | 9.929233 | 13 | 20 | |
| 9 11.7 | 50 | 9.722114 | 34 | 9.792880 | 47 | 0.207073 | 9.929220 | 13 | 10 | |
| | | 9.722148 | 34 | 9.792927 | 47 | 0.207026 | 9.929207 | 13 | 0 | 10 |
| | 50 | 9.722181 | 33 | 9.792974 | 47 | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.e. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 50 | 0 | 9.722181 | 34 | 9.792974 | 47 | 0.207026 | 9.929207 | 13 | 0 | 10 |
| | 10 | 9.722215 | 34 | 9.793021 | 47 | 0.206979 | 9.929194 | 13 | 50 | 47 |
| | 20 | 9.722249 | 34 | 9.793068 | 47 | 0.206932 | 9.929181 | 13 | 40 | 1 4.7 |
| | 30 | 9.722283 | 34 | 9.793115 | 47 | 0.206885 | 9.929168 | 13 | 30 | 2 9.4 |
| | 40 | 9.722317 | 34 | 9.793162 | 47 | 0.206838 | 9.929155 | 13 | 20 | 3 14.1 |
| | 50 | 9.722351 | 34 | 9.793209 | 47 | 0.206791 | 9.929142 | 13 | 10 | 4 18.8 |
| 51 | 0 | 9.722385 | 34 | 9.793256 | 47 | 0.206744 | 9.929129 | 13 | 0 | 5 23.5 |
| | 10 | 9.722419 | 34 | 9.793303 | 47 | 0.206697 | 9.929116 | 13 | 50 | 6 28.2 |
| | 20 | 9.722453 | 34 | 9.793350 | 47 | 0.206650 | 9.929103 | 13 | 40 | 7 32.9 |
| | 30 | 9.722487 | 34 | 9.793397 | 47 | 0.206603 | 9.929090 | 13 | 30 | 8 37.6 |
| | 40 | 9.722520 | 34 | 9.793444 | 47 | 0.206556 | 9.929077 | 13 | 20 | 9 42.3 |
| | 50 | 9.722554 | 34 | 9.793491 | 47 | 0.206509 | 9.929063 | 14 | 10 | |
| 52 | 0 | 9.722588 | 34 | 9.793538 | 47 | 0.206462 | 9.929050 | 13 | 0 | 8 |
| | 10 | 9.722622 | 34 | 9.793585 | 47 | 0.206415 | 9.929037 | 13 | 50 | 46 |
| | 20 | 9.722656 | 34 | 9.793632 | 47 | 0.206368 | 9.929024 | 13 | 40 | 1 4.6 |
| | 30 | 9.722690 | 34 | 9.793679 | 47 | 0.206321 | 9.929011 | 13 | 30 | 2 9.2 |
| | 40 | 9.722724 | 33 | 9.793726 | 47 | 0.206274 | 9.928998 | 13 | 20 | 3 13.8 |
| | 50 | 9.722757 | 34 | 9.793773 | 46 | 0.206227 | 9.928985 | 13 | 10 | 4 18.4 |
| 53 | 0 | 9.722791 | 34 | 9.793819 | 47 | 0.206180 | 9.928972 | 13 | 0 | 5 23.0 |
| | 10 | 9.722825 | 34 | 9.793866 | 47 | 0.206134 | 9.928959 | 13 | 50 | 6 27.6 |
| | 20 | 9.722859 | 34 | 9.793913 | 47 | 0.206087 | 9.928946 | 13 | 40 | 7 32.2 |
| | 30 | 9.722893 | 34 | 9.793960 | 47 | 0.206040 | 9.928933 | 13 | 30 | 8 36.8 |
| | 40 | 9.722927 | 33 | 9.794007 | 47 | 0.205993 | 9.928919 | 14 | 20 | 9 41.4 |
| | 50 | 9.722960 | 34 | 9.794054 | 47 | 0.205946 | 9.928906 | 13 | 10 | * |
| 54 | 0 | 9.722994 | 34 | 9.794101 | 47 | 0.205899 | 9.928893 | 13 | 0 | 6 |
| | 10 | 9.723028 | 34 | 9.794148 | 47 | 0.205852 | 9.928880 | 13 | 50 | |
| | 20 | 9.723062 | 34 | 9.794195 | 47 | 0.205805 | 9.928867 | 13 | 40 | 34 |
| | 30 | 9.723096 | 34 | 9.794242 | 47 | 0.205758 | 9.928854 | 13 | 30 | 1 3.4 |
| | 40 | 9.723130 | 33 | 9.794289 | 47 | 0.205711 | 9.928841 | 13 | 20 | 2 6.8 |
| | 50 | 9.723163 | 34 | 9.794336 | 47 | 0.205664 | 9.928828 | 13 | 10 | 3 10.2 |
| 55 | 0 | 9.723197 | 34 | 9.794383 | 47 | 0.205617 | 9.928815 | 13 | 0 | 4 15.6 |
| | 10 | 9.723231 | 34 | 9.794430 | 46 | 0.205570 | 9.928801 | 14 | 50 | 5 17.0 |
| | 20 | 9.723265 | 34 | 9.794476 | 46 | 0.205524 | 9.928788 | 13 | 40 | 6 20.4 |
| | 30 | 9.723299 | 34 | 9.794523 | 47 | 0.205477 | 9.928775 | 13 | 30 | 7 23.8 |
| | 40 | 9.723332 | 33 | 9.794570 | 47 | 0.205430 | 9.928762 | 13 | 20 | 8 27.2 |
| | 50 | 9.723366 | 34 | 9.794617 | 47 | 0.205383 | 9.928749 | 13 | 10 | 9 30.6 |
| 56 | 0 | 9.723400 | 34 | 9.794664 | 47 | 0.205336 | 9.928736 | 13 | 0 | 4 |
| | 10 | 9.723434 | 34 | 9.794711 | 47 | 0.205289 | 9.928723 | 13 | 50 | 33 |
| | 20 | 9.723468 | 33 | 9.794758 | 47 | 0.205242 | 9.928710 | 13 | 40 | 1 3.3 |
| | 30 | 9.723501 | 34 | 9.794805 | 47 | 0.205195 | 9.928696 | 14 | 30 | 2 6.6 |
| | 40 | 9.723535 | 34 | 9.794852 | 47 | 0.205148 | 9.928683 | 13 | 20 | 3 9.9 |
| | 50 | 9.723569 | 34 | 9.794899 | 47 | 0.205101 | 9.928670 | 13 | 10 | 4 13.2 |
| 57 | 0 | 9.723603 | 33 | 9.794946 | 47 | 0.205054 | 9.928657 | 13 | 0 | 5 16.5 |
| | 10 | 9.723636 | 34 | 9.794992 | 46 | 0.205008 | 9.928644 | 13 | 50 | 6 19.8 |
| | 20 | 9.723670 | 34 | 9.795039 | 47 | 0.204961 | 9.928631 | 13 | 40 | 7 23.1 |
| | 30 | 9.723704 | 34 | 9.795086 | 47 | 0.204914 | 9.928618 | 13 | 30 | 8 26.4 |
| | 40 | 9.723738 | 34 | 9.795133 | 47 | 0.204867 | 9.928605 | 13 | 20 | 9 29.7 |
| | 50 | 9.723771 | 33 | 9.795180 | 47 | 0.204820 | 9.928591 | 14 | 10 | |
| 58 | 0 | 9.723805 | 34 | 9.795227 | 47 | 0.204773 | 9.928578 | 13 | 0 | 2 |
| | 10 | 9.723839 | 34 | 9.795274 | 47 | 0.204726 | 9.928565 | 13 | 50 | * |
| | 20 | 9.723873 | 34 | 9.795321 | 47 | 0.204679 | 9.928552 | 13 | 40 | |
| | 30 | 9.723906 | 33 | 9.795367 | 46 | 0.204633 | 9.928539 | 13 | 30 | 14 |
| | 40 | 9.723940 | 34 | 9.795414 | 47 | 0.204586 | 9.928526 | 13 | 20 | 1 1.4 |
| | 50 | 9.723974 | 34 | 9.795461 | 47 | 0.204539 | 9.928513 | 13 | 10 | 2 2.8 |
| 59 | 0 | 9.724007 | 33 | 9.795508 | 47 | 0.204492 | 9.928500 | 14 | 0 | 3 4.2 |
| | 10 | 9.724041 | 34 | 9.795555 | 47 | 0.204445 | 9.928487 | 13 | 50 | 4 5.6 |
| | 20 | 9.724075 | 34 | 9.795602 | 47 | 0.204398 | 9.928473 | 13 | 40 | 5 7.0 |
| | 30 | 9.724109 | 34 | 9.795649 | 47 | 0.204351 | 9.928460 | 13 | 30 | 6 8.4 |
| | 40 | 9.724142 | 33 | 9.795696 | 47 | 0.204304 | 9.928447 | 13 | 20 | 7 9.8 |
| | 50 | 9.724176 | 34 | 9.795742 | 46 | 0.204258 | 9.928434 | 13 | 10 | 8 11.2 |
| 60 | 0 | 9.724210 | 34 | 9.795789 | 47 | 0.204211 | 9.928420 | 14 | 0 | 9 12.6 |
| ' | " | Cos | d. | Cotg | d.e. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|---------|----|----------|----|----------|-------|----------|----------|----|----|----|
| | 0 | 9.724210 | 33 | 9.795789 | 47 | 0.204211 | 9.928420 | 13 | 0 | 60 |
| 1 4.7 | 10 | 9.724243 | 34 | 9.795836 | 47 | 0.204164 | 9.928407 | 13 | 50 | |
| 2 9.4 | 20 | 9.724277 | 34 | 9.795883 | 47 | 0.204117 | 9.928394 | 13 | 40 | |
| 3 14.1 | 30 | 9.724311 | 33 | 9.795930 | 47 | 0.204070 | 9.928381 | 13 | 30 | |
| 4 18.8 | 40 | 9.724344 | 34 | 9.795977 | 46 | 0.204023 | 9.928368 | 13 | 20 | |
| 5 23.5 | 50 | 9.724378 | 34 | 9.796023 | 47 | 0.203977 | 9.928355 | 13 | 10 | |
| 6 28.2 | 1 | 9.724412 | 33 | 9.796070 | 47 | 0.203930 | 9.928342 | 13 | 0 | 59 |
| 7 32.9 | 10 | 9.724445 | 34 | 9.796117 | 47 | 0.203883 | 9.928329 | 13 | 50 | |
| 8 37.6 | 20 | 9.724479 | 34 | 9.796164 | 47 | 0.203836 | 9.928315 | 13 | 40 | |
| 9 42.3 | 30 | 9.724513 | 33 | 9.796211 | 47 | 0.203789 | 9.928302 | 13 | 30 | |
| | 40 | 9.724546 | 34 | 9.796258 | 46 | 0.203742 | 9.928289 | 13 | 20 | |
| | 50 | 9.724580 | 34 | 9.796304 | 47 | 0.203696 | 9.928276 | 13 | 10 | |
| | 2 | 9.724614 | 33 | 9.796351 | 47 | 0.203649 | 9.928263 | 13 | 0 | 58 |
| 1 4.6 | 10 | 9.724647 | 34 | 9.796398 | 47 | 0.203602 | 9.928250 | 13 | 50 | |
| 2 9.2 | 20 | 9.724681 | 34 | 9.796445 | 47 | 0.203555 | 9.928236 | 13 | 40 | |
| 3 13.8 | 30 | 9.724715 | 33 | 9.796492 | 47 | 0.203508 | 9.928223 | 13 | 30 | |
| 4 18.4 | 40 | 9.724748 | 34 | 9.796539 | 46 | 0.203461 | 9.928210 | 13 | 20 | |
| 5 23.0 | 50 | 9.724782 | 34 | 9.796585 | 47 | 0.203415 | 9.928197 | 13 | 10 | |
| 6 27.6 | 3 | 9.724816 | 33 | 9.796632 | 47 | 0.203368 | 9.928183 | 13 | 0 | 57 |
| 7 32.2 | 10 | 9.724849 | 34 | 9.796679 | 47 | 0.203321 | 9.928170 | 13 | 50 | |
| 8 36.8 | 20 | 9.724883 | 34 | 9.796726 | 47 | 0.203274 | 9.928157 | 13 | 40 | |
| 9 41.4 | 30 | 9.724917 | 33 | 9.796773 | 46 | 0.203227 | 9.928144 | 13 | 30 | |
| * | 40 | 9.724950 | 34 | 9.796819 | 47 | 0.203181 | 9.928131 | 13 | 20 | |
| | 50 | 9.724984 | 33 | 9.796866 | 47 | 0.203134 | 9.928118 | 13 | 10 | |
| | 4 | 9.725017 | 34 | 9.796913 | 47 | 0.203087 | 9.928104 | 13 | 0 | 56 |
| | 10 | 9.725051 | 34 | 9.796960 | 47 | 0.203040 | 9.928091 | 13 | 50 | |
| 1 34 | 20 | 9.725085 | 34 | 9.797007 | 47 | 0.202993 | 9.928078 | 13 | 40 | |
| 2 3.4 | 30 | 9.725118 | 33 | 9.797053 | 46 | 0.202947 | 9.928065 | 13 | 30 | |
| 3 6.8 | 40 | 9.725152 | 34 | 9.797100 | 47 | 0.202900 | 9.928052 | 13 | 20 | |
| 4 10.2 | 50 | 9.725185 | 33 | 9.797147 | 47 | 0.202853 | 9.928038 | 13 | 10 | |
| 5 13.6 | 5 | 9.725219 | 34 | 9.797194 | 47 | 0.202806 | 9.928025 | 13 | 0 | 55 |
| 6 17.0 | 10 | 9.725253 | 33 | 9.797241 | 46 | 0.202759 | 9.928012 | 13 | 50 | |
| 7 20.4 | 20 | 9.725286 | 34 | 9.797287 | 47 | 0.202713 | 9.927999 | 13 | 40 | |
| 8 23.8 | 30 | 9.725320 | 34 | 9.797334 | 47 | 0.202666 | 9.927986 | 13 | 30 | |
| 9 27.2 | 40 | 9.725353 | 33 | 9.797381 | 47 | 0.202619 | 9.927972 | 13 | 20 | |
| 10 30.6 | 50 | 9.725387 | 33 | 9.797428 | 46 | 0.202572 | 9.927959 | 13 | 10 | |
| | 6 | 9.725420 | 34 | 9.797474 | 47 | 0.202526 | 9.927946 | 13 | 0 | 54 |
| 1 33 | 10 | 9.725454 | 34 | 9.797521 | 47 | 0.202479 | 9.927933 | 13 | 50 | |
| 2 3.3 | 20 | 9.725488 | 33 | 9.797568 | 47 | 0.202432 | 9.927920 | 13 | 40 | |
| 3 6.6 | 30 | 9.725521 | 34 | 9.797615 | 47 | 0.202385 | 9.927906 | 13 | 30 | |
| 4 9.9 | 40 | 9.725555 | 33 | 9.797662 | 46 | 0.202338 | 9.927893 | 13 | 20 | |
| 5 13.2 | 50 | 9.725588 | 34 | 9.797708 | 47 | 0.202292 | 9.927880 | 13 | 10 | |
| 6 16.5 | 7 | 9.725622 | 33 | 9.797755 | 47 | 0.202245 | 9.927867 | 13 | 0 | 53 |
| 7 19.8 | 10 | 9.725655 | 34 | 9.797802 | 47 | 0.202198 | 9.927853 | 13 | 50 | |
| 8 23.1 | 20 | 9.725689 | 34 | 9.797849 | 47 | 0.202151 | 9.927840 | 13 | 40 | |
| 9 26.4 | 30 | 9.725722 | 33 | 9.797895 | 46 | 0.202105 | 9.927827 | 13 | 30 | |
| 10 29.7 | 40 | 9.725756 | 34 | 9.797942 | 47 | 0.202058 | 9.927814 | 13 | 20 | |
| * | 50 | 9.725789 | 34 | 9.797989 | 47 | 0.202011 | 9.927801 | 13 | 10 | |
| | 8 | 9.725823 | 33 | 9.798036 | 46 | 0.201964 | 9.927787 | 13 | 0 | 52 |
| | 10 | 9.725856 | 34 | 9.798082 | 47 | 0.201917 | 9.927774 | 13 | 50 | |
| 1 13 | 20 | 9.725890 | 34 | 9.798129 | 47 | 0.201871 | 9.927761 | 13 | 40 | |
| 2 1.3 | 30 | 9.725923 | 33 | 9.798176 | 47 | 0.201824 | 9.927748 | 13 | 30 | |
| 3 2.6 | 40 | 9.725957 | 33 | 9.798223 | 46 | 0.201777 | 9.927734 | 13 | 20 | |
| 4 3.9 | 50 | 9.725990 | 34 | 9.798269 | 47 | 0.201731 | 9.927721 | 13 | 10 | |
| 5 5.2 | 9 | 9.726024 | 33 | 9.798316 | 47 | 0.201684 | 9.927708 | 13 | 0 | 51 |
| 6 6.5 | 10 | 9.726057 | 34 | 9.798363 | 46 | 0.201637 | 9.927695 | 13 | 50 | |
| 7 7.8 | 20 | 9.726091 | 34 | 9.798409 | 47 | 0.201591 | 9.927681 | 13 | 40 | |
| 8 9.1 | 30 | 9.726124 | 33 | 9.798456 | 47 | 0.201544 | 9.927668 | 13 | 30 | |
| 9 10.4 | 40 | 9.726158 | 34 | 9.798503 | 47 | 0.201497 | 9.927655 | 13 | 20 | |
| 10 11.7 | 50 | 9.726191 | 33 | 9.798550 | 47 | 0.201450 | 9.927642 | 13 | 10 | |
| | 10 | 9.726225 | 34 | 9.798596 | 46 | 0.201404 | 9.927629 | 13 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.726225 | 33 | 9.798596 | 47 | 0.201404 | 9.927629 | 14 | 0 | 50 |
| | 10 | 9.726258 | 34 | 9.798643 | 47 | 0.201357 | 9.927615 | 13 | 50 | |
| | 20 | 9.726292 | 34 | 9.798690 | 47 | 0.201310 | 9.927602 | 13 | 40 | |
| | 30 | 9.726325 | 33 | 9.798737 | 47 | 0.201263 | 9.927589 | 13 | 30 | |
| | 40 | 9.726359 | 33 | 9.798783 | 47 | 0.201217 | 9.927576 | 13 | 20 | |
| | 50 | 9.726392 | 33 | 9.798830 | 47 | 0.201170 | 9.927562 | 14 | 10 | |
| 11 | 0 | 9.726426 | 34 | 9.798877 | 46 | 0.201123 | 9.927549 | 13 | 0 | 49 |
| | 10 | 9.726459 | 34 | 9.798923 | 47 | 0.201077 | 9.927536 | 13 | 50 | |
| | 20 | 9.726493 | 34 | 9.798970 | 47 | 0.201030 | 9.927523 | 13 | 40 | |
| | 30 | 9.726526 | 33 | 9.799017 | 47 | 0.200983 | 9.927509 | 14 | 30 | |
| | 40 | 9.726560 | 34 | 9.799063 | 46 | 0.200937 | 9.927496 | 13 | 20 | |
| | 50 | 9.726593 | 33 | 9.799110 | 47 | 0.200890 | 9.927483 | 13 | 10 | |
| 12 | 0 | 9.726626 | 34 | 9.799157 | 47 | 0.200843 | 9.927470 | 14 | 0 | 48 |
| | 10 | 9.726660 | 33 | 9.799204 | 46 | 0.200796 | 9.927456 | 13 | 50 | |
| | 20 | 9.726693 | 33 | 9.799250 | 47 | 0.200750 | 9.927443 | 13 | 40 | |
| | 30 | 9.726727 | 34 | 9.799297 | 47 | 0.200703 | 9.927430 | 13 | 30 | |
| | 40 | 9.726760 | 33 | 9.799344 | 46 | 0.200656 | 9.927416 | 14 | 20 | |
| | 50 | 9.726794 | 34 | 9.799390 | 47 | 0.200610 | 9.927403 | 13 | 10 | |
| 13 | 0 | 9.726827 | 33 | 9.799437 | 47 | 0.200563 | 9.927390 | 13 | 0 | 47 |
| | 10 | 9.726860 | 34 | 9.799484 | 46 | 0.200516 | 9.927377 | 14 | 50 | |
| | 20 | 9.726894 | 34 | 9.799530 | 47 | 0.200470 | 9.927363 | 14 | 40 | |
| | 30 | 9.726927 | 33 | 9.799577 | 47 | 0.200423 | 9.927350 | 13 | 30 | |
| | 40 | 9.726961 | 34 | 9.799624 | 46 | 0.200376 | 9.927337 | 13 | 20 | |
| | 50 | 9.726994 | 33 | 9.799670 | 47 | 0.200330 | 9.927324 | 14 | 10 | |
| 14 | 0 | 9.727027 | 34 | 9.799717 | 47 | 0.200283 | 9.927310 | 13 | 0 | 46 |
| | 10 | 9.727061 | 33 | 9.799764 | 46 | 0.200236 | 9.927297 | 13 | 50 | |
| | 20 | 9.727094 | 33 | 9.799810 | 47 | 0.200190 | 9.927284 | 14 | 40 | |
| | 30 | 9.727128 | 34 | 9.799857 | 47 | 0.200143 | 9.927270 | 14 | 30 | |
| | 40 | 9.727161 | 33 | 9.799904 | 46 | 0.200096 | 9.927257 | 13 | 20 | |
| | 50 | 9.727194 | 33 | 9.799950 | 47 | 0.200050 | 9.927244 | 13 | 10 | |
| 15 | 0 | 9.727228 | 34 | 9.799997 | 47 | 0.200003 | 9.927231 | 14 | 0 | 45 |
| | 10 | 9.727261 | 33 | 9.800044 | 46 | 0.199956 | 9.927217 | 13 | 50 | |
| | 20 | 9.727294 | 33 | 9.800090 | 47 | 0.199910 | 9.927204 | 13 | 40 | |
| | 30 | 9.727328 | 34 | 9.800137 | 47 | 0.199863 | 9.927191 | 13 | 30 | |
| | 40 | 9.727361 | 33 | 9.800184 | 46 | 0.199816 | 9.927177 | 14 | 20 | |
| | 50 | 9.727394 | 33 | 9.800230 | 47 | 0.199770 | 9.927164 | 13 | 10 | |
| 16 | 0 | 9.727428 | 34 | 9.800277 | 47 | 0.199723 | 9.927151 | 13 | 0 | 44 |
| | 10 | 9.727461 | 33 | 9.800324 | 46 | 0.199676 | 9.927138 | 14 | 50 | |
| | 20 | 9.727494 | 33 | 9.800370 | 47 | 0.199630 | 9.927124 | 13 | 40 | |
| | 30 | 9.727528 | 34 | 9.800417 | 46 | 0.199583 | 9.927111 | 13 | 30 | |
| | 40 | 9.727561 | 33 | 9.800463 | 47 | 0.199537 | 9.927098 | 13 | 20 | |
| | 50 | 9.727594 | 33 | 9.800510 | 47 | 0.199490 | 9.927084 | 14 | 10 | |
| 17 | 0 | 9.727628 | 34 | 9.800557 | 47 | 0.199443 | 9.927071 | 13 | 0 | 43 |
| | 10 | 9.727661 | 33 | 9.800603 | 46 | 0.199397 | 9.927058 | 14 | 50 | |
| | 20 | 9.727694 | 33 | 9.800650 | 47 | 0.199350 | 9.927044 | 13 | 40 | |
| | 30 | 9.727728 | 34 | 9.800697 | 47 | 0.199303 | 9.927031 | 13 | 30 | |
| | 40 | 9.727761 | 33 | 9.800743 | 46 | 0.199257 | 9.927018 | 13 | 20 | |
| | 50 | 9.727794 | 33 | 9.800790 | 47 | 0.199210 | 9.927005 | 13 | 10 | |
| 18 | 0 | 9.727828 | 34 | 9.800836 | 46 | 0.199164 | 9.926991 | 14 | 0 | 42 |
| | 10 | 9.727861 | 33 | 9.800883 | 47 | 0.199117 | 9.926978 | 13 | 50 | |
| | 20 | 9.727894 | 33 | 9.800930 | 47 | 0.199070 | 9.926965 | 13 | 40 | |
| | 30 | 9.727928 | 34 | 9.800976 | 46 | 0.199024 | 9.926951 | 14 | 30 | |
| | 40 | 9.727961 | 33 | 9.801023 | 47 | 0.198977 | 9.926938 | 13 | 20 | |
| | 50 | 9.727994 | 33 | 9.801070 | 46 | 0.198930 | 9.926925 | 13 | 10 | |
| 19 | 0 | 9.728027 | 33 | 9.801116 | 47 | 0.198884 | 9.926911 | 14 | 0 | 41 |
| | 10 | 9.728061 | 34 | 9.801163 | 47 | 0.198837 | 9.926898 | 13 | 50 | |
| | 20 | 9.728094 | 33 | 9.801209 | 46 | 0.198791 | 9.926885 | 13 | 40 | |
| | 30 | 9.728127 | 33 | 9.801256 | 47 | 0.198744 | 9.926871 | 14 | 30 | |
| | 40 | 9.728161 | 34 | 9.801303 | 47 | 0.198697 | 9.926858 | 13 | 20 | |
| | 50 | 9.728194 | 33 | 9.801349 | 46 | 0.198651 | 9.926845 | 13 | 10 | |
| 20 | 0 | 9.728227 | 33 | 9.801396 | 47 | 0.198604 | 9.926831 | 14 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|-----------|----|----------|-------|----------|----------|----|----|----|
| 47 | 20 | 0.9728227 | 33 | 9.801396 | 46 | 0.198604 | 9.926831 | 13 | 0 | 40 |
| 1 4.7 | 10 | 9.728260 | 33 | 9.801442 | 47 | 0.198558 | 9.926818 | 13 | 50 | |
| 2 9.4 | 20 | 9.728294 | 34 | 9.801489 | 46 | 0.198511 | 9.926805 | 13 | 40 | |
| 3 14.1 | 30 | 9.728327 | 33 | 9.801535 | 46 | 0.198465 | 9.926791 | 14 | 30 | |
| 4 18.8 | 40 | 9.728360 | 33 | 9.801582 | 47 | 0.198418 | 9.926778 | 13 | 20 | |
| 5 23.5 | 50 | 9.728393 | 33 | 9.801629 | 47 | 0.198371 | 9.926765 | 13 | 10 | |
| 6 28.2 | 21 | 0.9728427 | 33 | 9.801675 | 46 | 0.198325 | 9.926752 | 14 | 0 | 39 |
| 7 32.9 | 10 | 9.728460 | 33 | 9.801722 | 47 | 0.198278 | 9.926739 | 13 | 50 | |
| 8 37.6 | 20 | 9.728493 | 33 | 9.801768 | 46 | 0.198232 | 9.926725 | 13 | 40 | |
| 9 42.3 | 30 | 9.728526 | 33 | 9.801815 | 47 | 0.198185 | 9.926711 | 14 | 30 | |
| | 40 | 9.728560 | 34 | 9.801862 | 47 | 0.198138 | 9.926698 | 13 | 20 | |
| | 50 | 9.728593 | 33 | 9.801908 | 46 | 0.198092 | 9.926685 | 13 | 10 | |
| 46 | 22 | 0.9728626 | 33 | 9.801955 | 47 | 0.198045 | 9.926671 | 14 | 0 | 38 |
| 1 4.6 | 10 | 9.728659 | 33 | 9.802001 | 46 | 0.197999 | 9.926658 | 13 | 50 | |
| 2 9.2 | 20 | 9.728692 | 33 | 9.802048 | 47 | 0.197952 | 9.926645 | 13 | 40 | |
| 3 13.8 | 30 | 9.728726 | 34 | 9.802094 | 46 | 0.197906 | 9.926631 | 14 | 30 | |
| 4 18.4 | 40 | 9.728759 | 33 | 9.802141 | 47 | 0.197859 | 9.926618 | 13 | 20 | |
| 5 23.0 | 50 | 9.728792 | 33 | 9.802187 | 46 | 0.197813 | 9.926605 | 13 | 10 | |
| 6 27.6 | 23 | 0.9728825 | 33 | 9.802234 | 47 | 0.197766 | 9.926591 | 14 | 0 | 37 |
| 7 32.2 | 10 | 9.728858 | 33 | 9.802281 | 47 | 0.197719 | 9.926578 | 13 | 50 | |
| 8 36.8 | 20 | 9.728892 | 34 | 9.802327 | 46 | 0.197673 | 9.926565 | 13 | 40 | |
| 9 41.4 | 30 | 9.728925 | 33 | 9.802374 | 47 | 0.197626 | 9.926551 | 14 | 30 | |
| * | 40 | 9.728958 | 33 | 9.802420 | 46 | 0.197580 | 9.926538 | 13 | 20 | |
| | 50 | 9.728991 | 33 | 9.802467 | 47 | 0.197533 | 9.926525 | 13 | 10 | |
| 34 | 24 | 0.9729024 | 34 | 9.802513 | 46 | 0.197487 | 9.926511 | 14 | 0 | 36 |
| 1 3.4 | 10 | 9.729058 | 33 | 9.802560 | 47 | 0.197440 | 9.926498 | 13 | 50 | |
| 2 6.8 | 20 | 9.729091 | 33 | 9.802606 | 46 | 0.197394 | 9.926484 | 14 | 40 | |
| 3 10.2 | 30 | 9.729124 | 33 | 9.802653 | 47 | 0.197347 | 9.926471 | 13 | 30 | |
| 4 13.6 | 40 | 9.729157 | 33 | 9.802699 | 46 | 0.197301 | 9.926458 | 13 | 20 | |
| 5 17.0 | 50 | 9.729190 | 33 | 9.802746 | 47 | 0.197254 | 9.926444 | 14 | 10 | |
| 6 20.4 | 25 | 0.9729223 | 34 | 9.802792 | 46 | 0.197208 | 9.926431 | 13 | 0 | 35 |
| 7 23.8 | 10 | 9.729257 | 33 | 9.802839 | 47 | 0.197161 | 9.926418 | 13 | 50 | |
| 8 27.2 | 20 | 9.729290 | 33 | 9.802886 | 47 | 0.197114 | 9.926404 | 14 | 40 | |
| 9 30.6 | 30 | 9.729323 | 33 | 9.802932 | 46 | 0.197068 | 9.926391 | 13 | 30 | |
| | 40 | 9.729356 | 33 | 9.802979 | 47 | 0.197021 | 9.926377 | 14 | 20 | |
| | 50 | 9.729389 | 33 | 9.803025 | 46 | 0.196975 | 9.926364 | 13 | 10 | |
| 33 | 26 | 0.9729422 | 33 | 9.803072 | 47 | 0.196928 | 9.926351 | 13 | 0 | 34 |
| 1 3.3 | 10 | 9.729455 | 34 | 9.803118 | 46 | 0.196882 | 9.926337 | 14 | 50 | |
| 2 6.6 | 20 | 9.729489 | 33 | 9.803165 | 47 | 0.196835 | 9.926324 | 13 | 40 | |
| 3 9.9 | 30 | 9.729522 | 33 | 9.803211 | 46 | 0.196789 | 9.926311 | 13 | 30 | |
| 4 13.2 | 40 | 9.729555 | 33 | 9.803258 | 47 | 0.196742 | 9.926297 | 14 | 20 | |
| 5 16.5 | 50 | 9.729588 | 33 | 9.803304 | 46 | 0.196696 | 9.926284 | 13 | 10 | |
| 6 19.8 | 27 | 0.9729621 | 33 | 9.803351 | 47 | 0.196650 | 9.926271 | 14 | 0 | 33 |
| 7 23.1 | 10 | 9.729654 | 33 | 9.803398 | 46 | 0.196603 | 9.926257 | 13 | 50 | |
| 8 26.4 | 20 | 9.729687 | 33 | 9.803444 | 47 | 0.196556 | 9.926244 | 14 | 40 | |
| 9 29.7 | 30 | 9.729720 | 33 | 9.803490 | 46 | 0.196510 | 9.926230 | 13 | 30 | |
| * | 40 | 9.729753 | 33 | 9.803537 | 47 | 0.196463 | 9.926217 | 13 | 20 | |
| | 50 | 9.729787 | 34 | 9.803583 | 46 | 0.196417 | 9.926203 | 14 | 10 | |
| | 28 | 0.9729820 | 33 | 9.803630 | 47 | 0.196370 | 9.926190 | 13 | 0 | 32 |
| | 10 | 9.729853 | 33 | 9.803676 | 46 | 0.196324 | 9.926177 | 13 | 50 | |
| | 20 | 9.729886 | 33 | 9.803723 | 47 | 0.196277 | 9.926163 | 14 | 40 | |
| | 30 | 9.729919 | 33 | 9.803769 | 46 | 0.196231 | 9.926150 | 13 | 30 | |
| | 40 | 9.729952 | 33 | 9.803816 | 47 | 0.196184 | 9.926136 | 14 | 20 | |
| | 50 | 9.729985 | 33 | 9.803862 | 46 | 0.196138 | 9.926123 | 13 | 10 | |
| 13 | 29 | 0.9730018 | 35 | 9.803909 | 47 | 0.196091 | 9.926110 | 13 | 0 | 31 |
| 1 1.3 | 10 | 9.730051 | 33 | 9.803955 | 46 | 0.196045 | 9.926096 | 14 | 50 | |
| 2 2.6 | 20 | 9.730084 | 33 | 9.804001 | 47 | 0.195999 | 9.926083 | 13 | 40 | |
| 3 3.9 | 30 | 9.730117 | 33 | 9.804048 | 46 | 0.195952 | 9.926069 | 14 | 30 | |
| 4 5.2 | 40 | 9.730150 | 33 | 9.804094 | 47 | 0.195906 | 9.926056 | 13 | 20 | |
| 5 6.5 | 50 | 9.730183 | 33 | 9.804141 | 46 | 0.195859 | 9.926043 | 13 | 10 | |
| 6 7.8 | 30 | 9.730217 | 34 | 9.804187 | 46 | 0.195813 | 9.926029 | 14 | 0 | 30 |
| 7 9.1 | | | | | | | | | | |
| 8 10.4 | | | | | | | | | | |
| 9 11.7 | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 30 | 0 | 9.730217 | 33 | 9.804187 | 47 | 0.195813 | 9.926029 | 13 | 0 | 30 |
| | 10 | 9.730250 | 33 | 9.804234 | 46 | 0.195766 | 9.926016 | 14 | 50 | |
| | 20 | 9.730283 | 33 | 9.804280 | 46 | 0.195720 | 9.926002 | 13 | 40 | |
| | 30 | 9.730316 | 33 | 9.804327 | 47 | 0.195673 | 9.925989 | 13 | 30 | |
| | 40 | 9.730349 | 33 | 9.804373 | 46 | 0.195627 | 9.925976 | 14 | 20 | |
| | 50 | 9.730382 | 33 | 9.804420 | 47 | 0.195580 | 9.925962 | 14 | 10 | |
| | | | | | 46 | | | 13 | 0 | |
| 31 | 0 | 9.730415 | 33 | 9.804466 | 47 | 0.195534 | 9.925949 | 14 | 0 | 29 |
| | 10 | 9.730448 | 33 | 9.804513 | 46 | 0.195487 | 9.925935 | 13 | 50 | |
| | 20 | 9.730481 | 33 | 9.804559 | 46 | 0.195441 | 9.925922 | 13 | 40 | |
| | 30 | 9.730514 | 33 | 9.804605 | 46 | 0.195395 | 9.925908 | 14 | 30 | |
| | 40 | 9.730547 | 33 | 9.804652 | 47 | 0.195348 | 9.925895 | 13 | 20 | |
| | 50 | 9.730580 | 33 | 9.804698 | 46 | 0.195302 | 9.925882 | 13 | 10 | |
| | | | | | 47 | | | 14 | 0 | |
| 32 | 0 | 9.730613 | 33 | 9.804745 | 46 | 0.195255 | 9.925868 | 13 | 0 | 28 |
| | 10 | 9.730646 | 33 | 9.804791 | 47 | 0.195209 | 9.925855 | 14 | 50 | |
| | 20 | 9.730679 | 33 | 9.804838 | 47 | 0.195162 | 9.925841 | 14 | 40 | |
| | 30 | 9.730712 | 33 | 9.804884 | 46 | 0.195116 | 9.925828 | 13 | 30 | |
| | 40 | 9.730745 | 33 | 9.804930 | 46 | 0.195070 | 9.925814 | 14 | 20 | |
| | 50 | 9.730778 | 33 | 9.804977 | 47 | 0.195023 | 9.925801 | 13 | 10 | |
| | | | | | 46 | | | 14 | 0 | |
| 33 | 0 | 9.730811 | 33 | 9.805023 | 47 | 0.194977 | 9.925788 | 13 | 0 | 27 |
| | 10 | 9.730844 | 33 | 9.805070 | 46 | 0.194930 | 9.925774 | 13 | 50 | |
| | 20 | 9.730877 | 33 | 9.805116 | 46 | 0.194884 | 9.925761 | 13 | 40 | |
| | 30 | 9.730910 | 33 | 9.805163 | 47 | 0.194837 | 9.925747 | 14 | 30 | |
| | 40 | 9.730943 | 33 | 9.805209 | 46 | 0.194791 | 9.925734 | 13 | 20 | |
| | 50 | 9.730976 | 33 | 9.805255 | 46 | 0.194745 | 9.925720 | 14 | 10 | |
| | | | | | 47 | | | 13 | 0 | |
| 34 | 0 | 9.731009 | 33 | 9.805302 | 46 | 0.194698 | 9.925707 | 14 | 0 | 26 |
| | 10 | 9.731042 | 33 | 9.805348 | 47 | 0.194652 | 9.925693 | 13 | 50 | |
| | 20 | 9.731075 | 33 | 9.805395 | 47 | 0.194605 | 9.925680 | 13 | 40 | |
| | 30 | 9.731108 | 33 | 9.805441 | 46 | 0.194559 | 9.925667 | 13 | 30 | |
| | 40 | 9.731141 | 33 | 9.805487 | 46 | 0.194513 | 9.925653 | 14 | 20 | |
| | 50 | 9.731173 | 32 | 9.805534 | 47 | 0.194466 | 9.925640 | 13 | 10 | |
| | | | | | 46 | | | 14 | 0 | |
| 35 | 0 | 9.731206 | 33 | 9.805580 | 47 | 0.194420 | 9.925626 | 13 | 0 | 25 |
| | 10 | 9.731239 | 33 | 9.805627 | 46 | 0.194373 | 9.925613 | 14 | 50 | |
| | 20 | 9.731272 | 33 | 9.805673 | 46 | 0.194327 | 9.925599 | 13 | 40 | |
| | 30 | 9.731305 | 33 | 9.805719 | 46 | 0.194281 | 9.925586 | 13 | 30 | |
| | 40 | 9.731338 | 33 | 9.805766 | 47 | 0.194234 | 9.925572 | 14 | 20 | |
| | 50 | 9.731371 | 33 | 9.805812 | 46 | 0.194188 | 9.925559 | 13 | 10 | |
| | | | | | 47 | | | 14 | 0 | |
| 36 | 0 | 9.731404 | 33 | 9.805859 | 46 | 0.194141 | 9.925545 | 13 | 0 | 24 |
| | 10 | 9.731437 | 33 | 9.805905 | 46 | 0.194095 | 9.925532 | 13 | 50 | |
| | 20 | 9.731470 | 33 | 9.805951 | 47 | 0.194049 | 9.925518 | 14 | 40 | |
| | 30 | 9.731503 | 33 | 9.805998 | 47 | 0.194002 | 9.925505 | 13 | 30 | |
| | 40 | 9.731536 | 33 | 9.806044 | 46 | 0.193956 | 9.925491 | 14 | 20 | |
| | 50 | 9.731569 | 33 | 9.806091 | 47 | 0.193909 | 9.925478 | 13 | 10 | |
| | | | | | 46 | | | 14 | 0 | |
| 37 | 0 | 9.731602 | 32 | 9.806137 | 46 | 0.193863 | 9.925465 | 13 | 0 | 23 |
| | 10 | 9.731634 | 33 | 9.806183 | 47 | 0.193817 | 9.925451 | 14 | 50 | |
| | 20 | 9.731667 | 33 | 9.806230 | 47 | 0.193770 | 9.925438 | 13 | 40 | |
| | 30 | 9.731700 | 33 | 9.806276 | 46 | 0.193724 | 9.925424 | 14 | 30 | |
| | 40 | 9.731733 | 33 | 9.806322 | 46 | 0.193678 | 9.925411 | 13 | 20 | |
| | 50 | 9.731766 | 33 | 9.806369 | 47 | 0.193631 | 9.925397 | 14 | 10 | |
| | | | | | 46 | | | 13 | 0 | |
| 38 | 0 | 9.731799 | 33 | 9.806415 | 47 | 0.193585 | 9.925384 | 14 | 0 | 22 |
| | 10 | 9.731832 | 33 | 9.806462 | 46 | 0.193538 | 9.925370 | 13 | 50 | |
| | 20 | 9.731865 | 33 | 9.806508 | 46 | 0.193492 | 9.925357 | 14 | 40 | |
| | 30 | 9.731897 | 32 | 9.806554 | 46 | 0.193446 | 9.925343 | 13 | 30 | |
| | 40 | 9.731930 | 33 | 9.806601 | 47 | 0.193399 | 9.925330 | 14 | 20 | |
| | 50 | 9.731963 | 33 | 9.806647 | 46 | 0.193353 | 9.925316 | 13 | 10 | |
| | | | | | 47 | | | 14 | 0 | |
| 39 | 0 | 9.731996 | 33 | 9.806693 | 46 | 0.193307 | 9.925303 | 13 | 0 | 21 |
| | 10 | 9.732029 | 33 | 9.806740 | 47 | 0.193260 | 9.925289 | 14 | 50 | |
| | 20 | 9.732062 | 33 | 9.806786 | 46 | 0.193214 | 9.925276 | 13 | 40 | |
| | 30 | 9.732095 | 33 | 9.806832 | 46 | 0.193168 | 9.925262 | 14 | 30 | |
| | 40 | 9.732127 | 32 | 9.806879 | 47 | 0.193121 | 9.925249 | 13 | 20 | |
| | 50 | 9.732160 | 33 | 9.806925 | 46 | 0.193075 | 9.925235 | 14 | 10 | |
| | | | | | 46 | | | 13 | 0 | |
| 40 | 0 | 9.732193 | 33 | 9.806971 | 46 | 0.193029 | 9.925222 | 13 | 0 | 20 |

47
 1 4.7
 2 9.4
 3 14.1
 4 18.8
 5 23.5
 6 28.2
 7 32.9
 8 37.6
 9 42.3
 46
 1 4.6
 2 9.2
 3 13.8
 4 18.4
 5 23.0
 6 27.6
 7 32.2
 8 36.8
 9 41.4
 *
 33
 1 3.3
 2 6.6
 3 9.9
 4 13.2
 5 16.5
 6 19.8
 7 23.1
 8 26.4
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 32
 1 3.2
 2 6.4
 3 9.6
 4 12.8
 5 16.0
 6 19.2
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 14
 1 1.4
 2 2.8
 3 4.2
 4 5.6
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 6 8.4
 7 9.8
 8 11.2
 9 12.6

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|----------|----------|----------|----------|----------|----------|----------|----|---|----|
| 47 | 40 | 0 | 9.732193 | 33 | 9.806971 | 47 | 0.193029 | 9.925222 | 14 | 0 | 20 |
| 1 4.7 | 10 | 9.732226 | 33 | 9.807018 | 46 | 0.192982 | 9.925208 | 13 | 50 | | |
| 2 9.4 | 20 | 9.732259 | 33 | 9.807064 | 46 | 0.192936 | 9.925195 | 14 | 40 | | |
| 3 14.1 | 30 | 9.732292 | 33 | 9.807110 | 46 | 0.192890 | 9.925181 | 14 | 30 | | |
| 4 18.8 | 40 | 9.732325 | 33 | 9.807157 | 46 | 0.192843 | 9.925168 | 13 | 20 | | |
| 5 23.5 | 50 | 9.732357 | 33 | 9.807203 | 46 | 0.192797 | 9.925154 | 14 | 10 | | |
| 6 28.2 | 41 | 0 | 9.732390 | 33 | 9.807249 | 47 | 0.192751 | 9.925141 | 13 | 0 | 19 |
| 7 32.9 | 10 | 9.732423 | 33 | 9.807296 | 46 | 0.192704 | 9.925127 | 14 | 50 | | |
| 8 37.6 | 20 | 9.732456 | 33 | 9.807342 | 46 | 0.192658 | 9.925114 | 13 | 40 | | |
| 9 42.3 | 30 | 9.732489 | 33 | 9.807388 | 46 | 0.192612 | 9.925100 | 14 | 30 | | |
| | 40 | 9.732521 | 33 | 9.807435 | 46 | 0.192565 | 9.925087 | 13 | 20 | | |
| | 50 | 9.732554 | 33 | 9.807481 | 46 | 0.192519 | 9.925073 | 14 | 10 | | |
| | 42 | 0 | 9.732587 | 33 | 9.807527 | 47 | 0.192473 | 9.925060 | 13 | 0 | 18 |
| 1 4.6 | 10 | 9.732620 | 33 | 9.807574 | 46 | 0.192426 | 9.925046 | 14 | 50 | | |
| 2 9.2 | 20 | 9.732653 | 33 | 9.807620 | 46 | 0.192380 | 9.925033 | 13 | 40 | | |
| 3 13.8 | 30 | 9.732685 | 33 | 9.807666 | 46 | 0.192334 | 9.925019 | 14 | 30 | | |
| 4 18.4 | 40 | 9.732718 | 33 | 9.807713 | 46 | 0.192287 | 9.925006 | 13 | 20 | | |
| 5 23.0 | 50 | 9.732751 | 33 | 9.807759 | 46 | 0.192241 | 9.924992 | 14 | 10 | | |
| 6 27.6 | 43 | 0 | 9.732784 | 33 | 9.807805 | 47 | 0.192195 | 9.924979 | 13 | 0 | 17 |
| 7 32.2 | 10 | 9.732816 | 33 | 9.807851 | 46 | 0.192149 | 9.924965 | 14 | 50 | | |
| 8 36.8 | 20 | 9.732849 | 33 | 9.807898 | 46 | 0.192102 | 9.924952 | 13 | 40 | | |
| 9 41.4 | 30 | 9.732882 | 33 | 9.807944 | 46 | 0.192056 | 9.924938 | 14 | 30 | | |
| * | 40 | 9.732915 | 33 | 9.807990 | 46 | 0.192010 | 9.924924 | 13 | 20 | | |
| | 50 | 9.732948 | 33 | 9.808037 | 46 | 0.191963 | 9.924911 | 14 | 10 | | |
| | 44 | 0 | 9.732980 | 33 | 9.808083 | 46 | 0.191917 | 9.924897 | 13 | 0 | 16 |
| | 10 | 9.733013 | 33 | 9.808129 | 46 | 0.191871 | 9.924884 | 14 | 50 | | |
| 1 3.3 | 20 | 9.733046 | 33 | 9.808176 | 47 | 0.191824 | 9.924870 | 13 | 40 | | |
| 2 6.6 | 30 | 9.733079 | 33 | 9.808222 | 46 | 0.191778 | 9.924857 | 14 | 30 | | |
| 3 9.9 | 40 | 9.733111 | 33 | 9.808268 | 46 | 0.191732 | 9.924843 | 13 | 20 | | |
| 4 13.2 | 50 | 9.733144 | 33 | 9.808314 | 46 | 0.191686 | 9.924830 | 14 | 10 | | |
| 5 16.5 | 45 | 0 | 9.733177 | 33 | 9.808361 | 47 | 0.191639 | 9.924816 | 13 | 0 | 15 |
| 6 19.8 | 10 | 9.733210 | 33 | 9.808407 | 46 | 0.191593 | 9.924803 | 14 | 50 | | |
| 7 23.1 | 20 | 9.733242 | 33 | 9.808453 | 46 | 0.191547 | 9.924789 | 13 | 40 | | |
| 8 26.4 | 30 | 9.733275 | 33 | 9.808499 | 46 | 0.191501 | 9.924776 | 14 | 30 | | |
| 9 29.7 | 40 | 9.733308 | 33 | 9.808546 | 46 | 0.191454 | 9.924762 | 13 | 20 | | |
| | 50 | 9.733340 | 33 | 9.808592 | 46 | 0.191408 | 9.924749 | 14 | 10 | | |
| | 46 | 0 | 9.733373 | 33 | 9.808638 | 47 | 0.191362 | 9.924735 | 13 | 0 | 14 |
| 1 3.2 | 10 | 9.733406 | 33 | 9.808685 | 46 | 0.191315 | 9.924721 | 14 | 50 | | |
| 2 6.4 | 20 | 9.733439 | 33 | 9.808731 | 46 | 0.191269 | 9.924708 | 13 | 40 | | |
| 3 9.6 | 30 | 9.733471 | 33 | 9.808777 | 46 | 0.191223 | 9.924694 | 14 | 30 | | |
| 4 12.8 | 40 | 9.733504 | 33 | 9.808823 | 46 | 0.191177 | 9.924681 | 13 | 20 | | |
| 5 16.0 | 50 | 9.733537 | 33 | 9.808870 | 46 | 0.191130 | 9.924667 | 14 | 10 | | |
| 6 19.2 | 47 | 0 | 9.733569 | 33 | 9.808916 | 47 | 0.191084 | 9.924654 | 13 | 0 | 13 |
| 7 22.4 | 10 | 9.733602 | 33 | 9.808962 | 46 | 0.191038 | 9.924640 | 14 | 50 | | |
| 8 25.6 | 20 | 9.733635 | 33 | 9.809008 | 46 | 0.190992 | 9.924626 | 13 | 40 | | |
| 9 28.8 | 30 | 9.733667 | 33 | 9.809055 | 46 | 0.190945 | 9.924613 | 14 | 30 | | |
| * | 40 | 9.733700 | 33 | 9.809101 | 46 | 0.190899 | 9.924599 | 13 | 20 | | |
| | 50 | 9.733733 | 33 | 9.809147 | 46 | 0.190853 | 9.924586 | 14 | 10 | | |
| | 48 | 0 | 9.733765 | 33 | 9.809193 | 47 | 0.190807 | 9.924572 | 13 | 0 | 12 |
| | 10 | 9.733798 | 33 | 9.809240 | 46 | 0.190760 | 9.924559 | 14 | 50 | | |
| 1 1.3 | 20 | 9.733831 | 33 | 9.809286 | 46 | 0.190714 | 9.924545 | 13 | 40 | | |
| 2 2.6 | 30 | 9.733863 | 33 | 9.809332 | 46 | 0.190668 | 9.924531 | 14 | 30 | | |
| 3 3.9 | 40 | 9.733896 | 33 | 9.809378 | 46 | 0.190622 | 9.924518 | 13 | 20 | | |
| 4 5.2 | 50 | 9.733929 | 33 | 9.809424 | 46 | 0.190576 | 9.924504 | 14 | 10 | | |
| 5 6.5 | 49 | 0 | 9.733961 | 33 | 9.809471 | 47 | 0.190530 | 9.924491 | 13 | 0 | 11 |
| 6 7.8 | 10 | 9.733994 | 33 | 9.809517 | 46 | 0.190483 | 9.924477 | 14 | 50 | | |
| 7 9.1 | 20 | 9.734027 | 33 | 9.809563 | 46 | 0.190437 | 9.924464 | 13 | 40 | | |
| 8 10.4 | 30 | 9.734059 | 33 | 9.809609 | 46 | 0.190391 | 9.924450 | 14 | 30 | | |
| 9 11.7 | 40 | 9.734092 | 33 | 9.809656 | 46 | 0.190344 | 9.924436 | 13 | 20 | | |
| | 50 | 9.734125 | 33 | 9.809702 | 46 | 0.190298 | 9.924423 | 14 | 10 | | |
| | 50 | 0 | 9.734157 | 33 | 9.809748 | 46 | 0.190252 | 9.924409 | 14 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 50 | 0 | 9.734157 | 33 | 9.809748 | 46 | 0.190252 | 9.924409 | 13 | 0 | 10 |
| | 10 | 9.734190 | 32 | 9.809794 | 46 | 0.190206 | 9.924396 | 14 | 50 | |
| | 20 | 9.734222 | 33 | 9.809840 | 46 | 0.190160 | 9.924382 | 14 | 30 | |
| | 30 | 9.734255 | 33 | 9.809887 | 47 | 0.190113 | 9.924368 | 14 | 10 | |
| | 40 | 9.734288 | 32 | 9.809933 | 46 | 0.190067 | 9.924355 | 13 | 20 | |
| | 50 | 9.734320 | 33 | 9.809979 | 46 | 0.190021 | 9.924341 | 14 | 10 | |
| 51 | 0 | 9.734353 | 33 | 9.810025 | 46 | 0.189975 | 9.924328 | 13 | 0 | 9 |
| | 10 | 9.734386 | 32 | 9.810071 | 46 | 0.189929 | 9.924314 | 14 | 50 | |
| | 20 | 9.734418 | 33 | 9.810118 | 47 | 0.189882 | 9.924300 | 14 | 40 | |
| | 30 | 9.734451 | 33 | 9.810164 | 46 | 0.189836 | 9.924287 | 13 | 30 | |
| | 40 | 9.734483 | 32 | 9.810210 | 46 | 0.189790 | 9.924273 | 14 | 20 | |
| | 50 | 9.734516 | 33 | 9.810256 | 46 | 0.189744 | 9.924260 | 13 | 10 | |
| 52 | 0 | 9.734549 | 33 | 9.810302 | 46 | 0.189698 | 9.924246 | 14 | 0 | 8 |
| | 10 | 9.734581 | 32 | 9.810349 | 47 | 0.189651 | 9.924232 | 14 | 50 | |
| | 20 | 9.734614 | 33 | 9.810395 | 46 | 0.189605 | 9.924219 | 13 | 40 | |
| | 30 | 9.734646 | 32 | 9.810441 | 46 | 0.189559 | 9.924205 | 14 | 30 | |
| | 40 | 9.734679 | 32 | 9.810487 | 46 | 0.189513 | 9.924192 | 13 | 20 | |
| | 50 | 9.734711 | 33 | 9.810533 | 46 | 0.189467 | 9.924178 | 14 | 10 | |
| 53 | 0 | 9.734744 | 33 | 9.810580 | 47 | 0.189420 | 9.924164 | 13 | 0 | 7 |
| | 10 | 9.734777 | 32 | 9.810626 | 46 | 0.189374 | 9.924151 | 13 | 50 | |
| | 20 | 9.734809 | 33 | 9.810672 | 46 | 0.189328 | 9.924137 | 14 | 40 | |
| | 30 | 9.734842 | 32 | 9.810718 | 46 | 0.189282 | 9.924124 | 13 | 30 | |
| | 40 | 9.734874 | 33 | 9.810764 | 46 | 0.189236 | 9.924110 | 14 | 20 | |
| | 50 | 9.734907 | 33 | 9.810810 | 46 | 0.189190 | 9.924096 | 14 | 10 | |
| 54 | 0 | 9.734939 | 32 | 9.810857 | 47 | 0.189143 | 9.924083 | 13 | 0 | 6 |
| | 10 | 9.734972 | 32 | 9.810903 | 46 | 0.189097 | 9.924069 | 14 | 50 | |
| | 20 | 9.735004 | 33 | 9.810949 | 46 | 0.189051 | 9.924055 | 14 | 40 | |
| | 30 | 9.735037 | 32 | 9.810995 | 46 | 0.189005 | 9.924042 | 13 | 30 | |
| | 40 | 9.735069 | 33 | 9.811041 | 46 | 0.188959 | 9.924028 | 14 | 20 | |
| | 50 | 9.735102 | 33 | 9.811087 | 47 | 0.188913 | 9.924015 | 13 | 10 | |
| 55 | 0 | 9.735135 | 32 | 9.811134 | 46 | 0.188866 | 9.924001 | 14 | 0 | 5 |
| | 10 | 9.735167 | 33 | 9.811180 | 46 | 0.188820 | 9.923987 | 13 | 50 | |
| | 20 | 9.735200 | 32 | 9.811226 | 46 | 0.188774 | 9.923974 | 14 | 40 | |
| | 30 | 9.735232 | 32 | 9.811272 | 46 | 0.188728 | 9.923960 | 14 | 30 | |
| | 40 | 9.735265 | 33 | 9.811318 | 46 | 0.188682 | 9.923946 | 13 | 20 | |
| | 50 | 9.735297 | 32 | 9.811364 | 46 | 0.188636 | 9.923933 | 14 | 10 | |
| 56 | 0 | 9.735330 | 33 | 9.811410 | 47 | 0.188590 | 9.923919 | 13 | 0 | 4 |
| | 10 | 9.735362 | 32 | 9.811457 | 46 | 0.188543 | 9.923906 | 14 | 50 | |
| | 20 | 9.735395 | 32 | 9.811503 | 46 | 0.188497 | 9.923892 | 14 | 40 | |
| | 30 | 9.735427 | 32 | 9.811549 | 46 | 0.188451 | 9.923878 | 13 | 30 | |
| | 40 | 9.735460 | 33 | 9.811595 | 46 | 0.188405 | 9.923865 | 14 | 20 | |
| | 50 | 9.735492 | 32 | 9.811641 | 46 | 0.188359 | 9.923851 | 13 | 10 | |
| 57 | 0 | 9.735525 | 33 | 9.811687 | 46 | 0.188313 | 9.923837 | 14 | 0 | 3 |
| | 10 | 9.735557 | 32 | 9.811733 | 47 | 0.188267 | 9.923824 | 13 | 50 | |
| | 20 | 9.735590 | 32 | 9.811780 | 46 | 0.188220 | 9.923810 | 14 | 40 | |
| | 30 | 9.735622 | 32 | 9.811826 | 46 | 0.188174 | 9.923796 | 14 | 30 | |
| | 40 | 9.735655 | 33 | 9.811872 | 46 | 0.188128 | 9.923783 | 13 | 20 | |
| | 50 | 9.735687 | 32 | 9.811918 | 46 | 0.188082 | 9.923769 | 14 | 10 | |
| 58 | 0 | 9.735719 | 32 | 9.811964 | 46 | 0.188036 | 9.923755 | 13 | 0 | 2 |
| | 10 | 9.735752 | 33 | 9.812010 | 46 | 0.187990 | 9.923742 | 14 | 50 | |
| | 20 | 9.735784 | 32 | 9.812056 | 46 | 0.187944 | 9.923728 | 14 | 40 | |
| | 30 | 9.735817 | 33 | 9.812102 | 47 | 0.187898 | 9.923714 | 14 | 30 | |
| | 40 | 9.735849 | 32 | 9.812149 | 46 | 0.187851 | 9.923701 | 13 | 20 | |
| | 50 | 9.735882 | 33 | 9.812195 | 46 | 0.187805 | 9.923687 | 14 | 10 | |
| 59 | 0 | 9.735914 | 32 | 9.812241 | 46 | 0.187759 | 9.923673 | 13 | 0 | 1 |
| | 10 | 9.735947 | 33 | 9.812287 | 46 | 0.187713 | 9.923660 | 14 | 50 | |
| | 20 | 9.735979 | 32 | 9.812333 | 46 | 0.187667 | 9.923646 | 14 | 40 | |
| | 30 | 9.736011 | 32 | 9.812379 | 46 | 0.187621 | 9.923632 | 14 | 30 | |
| | 40 | 9.736044 | 33 | 9.812425 | 46 | 0.187575 | 9.923619 | 13 | 20 | |
| | 50 | 9.736076 | 32 | 9.812471 | 46 | 0.187529 | 9.923605 | 14 | 10 | |
| 60 | 0 | 9.736109 | 33 | 9.812517 | 46 | 0.187483 | 9.923591 | 14 | 0 | 0 |

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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----------|----------|----------|----------|----------|----------|----|----|
| | 0 | 0 | 9.736109 | 32 | 9.812517 | 46 | 0.187483 | 9.923591 | 13 | 60 |
| 1 47 | 10 | 9.736141 | 33 | 9.812563 | 47 | 0.187437 | 9.923578 | 14 | 50 | |
| 2 9.4 | 20 | 9.736174 | 32 | 9.812610 | 46 | 0.187390 | 9.923564 | 14 | 40 | |
| 3 14.1 | 30 | 9.736206 | 32 | 9.812656 | 46 | 0.187344 | 9.923550 | 14 | 30 | |
| 4 18.8 | 40 | 9.736238 | 32 | 9.812702 | 46 | 0.187298 | 9.923537 | 13 | 20 | |
| 5 23.5 | 50 | 9.736271 | 33 | 9.812748 | 46 | 0.187252 | 9.923523 | 14 | 10 | |
| 6 28.2 | 1 | 0 | 9.736303 | 32 | 9.812794 | 46 | 0.187206 | 9.923509 | 14 | 0 |
| 7 32.9 | 10 | 9.736336 | 33 | 9.812840 | 46 | 0.187160 | 9.923496 | 13 | 50 | |
| 8 37.6 | 20 | 9.736368 | 32 | 9.812886 | 46 | 0.187114 | 9.923482 | 14 | 40 | |
| 9 42.3 | 30 | 9.736400 | 32 | 9.812932 | 46 | 0.187068 | 9.923468 | 14 | 30 | |
| | 40 | 9.736433 | 33 | 9.812978 | 46 | 0.187022 | 9.923455 | 13 | 20 | |
| | 50 | 9.736465 | 32 | 9.813024 | 46 | 0.186976 | 9.923441 | 14 | 10 | |
| | 2 | 0 | 9.736498 | 33 | 9.813070 | 46 | 0.186930 | 9.923427 | 14 | 0 |
| 1 4.6 | 10 | 9.736530 | 32 | 9.813116 | 47 | 0.186883 | 9.923414 | 13 | 50 | |
| 2 9.2 | 20 | 9.736562 | 33 | 9.813163 | 46 | 0.186837 | 9.923400 | 14 | 40 | |
| 3 13.8 | 30 | 9.736595 | 32 | 9.813209 | 46 | 0.186791 | 9.923386 | 14 | 30 | |
| 4 18.4 | 40 | 9.736627 | 32 | 9.813255 | 46 | 0.186745 | 9.923372 | 14 | 20 | |
| 5 23.0 | 50 | 9.736659 | 32 | 9.813301 | 46 | 0.186699 | 9.923358 | 13 | 10 | |
| 6 27.6 | 3 | 0 | 9.736692 | 33 | 9.813347 | 46 | 0.186653 | 9.923344 | 14 | 0 |
| 7 32.2 | 10 | 9.736724 | 32 | 9.813393 | 46 | 0.186607 | 9.923331 | 14 | 50 | |
| 8 36.8 | 20 | 9.736757 | 33 | 9.813439 | 46 | 0.186561 | 9.923318 | 13 | 40 | |
| 9 41.4 | 30 | 9.736789 | 32 | 9.813485 | 46 | 0.186515 | 9.923304 | 14 | 30 | |
| | 40 | 9.736821 | 32 | 9.813531 | 46 | 0.186469 | 9.923290 | 14 | 20 | |
| | 50 | 9.736854 | 33 | 9.813577 | 46 | 0.186423 | 9.923277 | 13 | 10 | |
| * | 4 | 0 | 9.736886 | 32 | 9.813623 | 46 | 0.186377 | 9.923263 | 14 | 0 |
| 1 33 | 10 | 9.736918 | 32 | 9.813669 | 46 | 0.186331 | 9.923249 | 14 | 50 | |
| 2 3.3 | 20 | 9.736951 | 33 | 9.813715 | 46 | 0.186285 | 9.923235 | 14 | 40 | |
| 3 6.6 | 30 | 9.736983 | 32 | 9.813761 | 46 | 0.186239 | 9.923222 | 13 | 30 | |
| 4 11.2 | 40 | 9.737015 | 32 | 9.813807 | 46 | 0.186193 | 9.923208 | 14 | 20 | |
| 5 16.5 | 50 | 9.737048 | 33 | 9.813853 | 46 | 0.186147 | 9.923194 | 14 | 10 | |
| 6 19.8 | 5 | 0 | 9.737080 | 32 | 9.813899 | 46 | 0.186101 | 9.923181 | 13 | 0 |
| 7 23.1 | 10 | 9.737112 | 32 | 9.813945 | 46 | 0.186055 | 9.923167 | 14 | 50 | |
| 8 26.4 | 20 | 9.737145 | 33 | 9.813991 | 46 | 0.186009 | 9.923153 | 14 | 40 | |
| 9 29.7 | 30 | 9.737177 | 32 | 9.814037 | 46 | 0.185963 | 9.923139 | 14 | 30 | |
| | 40 | 9.737209 | 32 | 9.814083 | 46 | 0.185917 | 9.923126 | 13 | 20 | |
| | 50 | 9.737241 | 32 | 9.814129 | 46 | 0.185871 | 9.923112 | 14 | 10 | |
| | 6 | 0 | 9.737274 | 33 | 9.814176 | 47 | 0.185825 | 9.923098 | 14 | 0 |
| 1 3.2 | 10 | 9.737306 | 32 | 9.814222 | 46 | 0.185779 | 9.923084 | 14 | 50 | |
| 2 6.4 | 20 | 9.737338 | 32 | 9.814268 | 46 | 0.185732 | 9.923071 | 13 | 40 | |
| 3 9.6 | 30 | 9.737371 | 33 | 9.814314 | 46 | 0.185686 | 9.923057 | 14 | 30 | |
| 4 12.8 | 40 | 9.737403 | 32 | 9.814360 | 46 | 0.185640 | 9.923043 | 14 | 20 | |
| 5 16.0 | 50 | 9.737435 | 32 | 9.814406 | 46 | 0.185594 | 9.923029 | 13 | 10 | |
| 6 19.2 | 7 | 0 | 9.737467 | 32 | 9.814452 | 46 | 0.185548 | 9.923016 | 14 | 0 |
| 7 22.4 | 10 | 9.737500 | 33 | 9.814498 | 46 | 0.185502 | 9.923002 | 14 | 50 | |
| 8 25.6 | 20 | 9.737532 | 32 | 9.814544 | 46 | 0.185456 | 9.922988 | 14 | 40 | |
| 9 28.8 | 30 | 9.737564 | 32 | 9.814590 | 46 | 0.185410 | 9.922975 | 13 | 30 | |
| | 40 | 9.737597 | 33 | 9.814636 | 46 | 0.185364 | 9.922961 | 14 | 20 | |
| | 50 | 9.737629 | 32 | 9.814682 | 46 | 0.185318 | 9.922947 | 14 | 10 | |
| * | 8 | 0 | 9.737661 | 32 | 9.814728 | 46 | 0.185272 | 9.922933 | 14 | 0 |
| 1 13 | 10 | 9.737693 | 32 | 9.814774 | 46 | 0.185226 | 9.922920 | 13 | 50 | |
| 2 2.6 | 20 | 9.737726 | 33 | 9.814820 | 46 | 0.185180 | 9.922906 | 14 | 40 | |
| 3 3.9 | 30 | 9.737758 | 32 | 9.814866 | 46 | 0.185134 | 9.922892 | 14 | 30 | |
| 4 5.2 | 40 | 9.737790 | 32 | 9.814912 | 46 | 0.185088 | 9.922878 | 14 | 20 | |
| 5 6.5 | 50 | 9.737822 | 32 | 9.814958 | 46 | 0.185042 | 9.922865 | 13 | 10 | |
| 6 7.8 | 9 | 0 | 9.737855 | 33 | 9.815004 | 46 | 0.184996 | 9.922851 | 14 | 0 |
| 7 9.1 | 10 | 9.737887 | 32 | 9.815050 | 46 | 0.184950 | 9.922837 | 14 | 50 | |
| 8 10.4 | 20 | 9.737919 | 32 | 9.815096 | 46 | 0.184904 | 9.922823 | 14 | 40 | |
| 9 11.7 | 30 | 9.737951 | 32 | 9.815142 | 46 | 0.184858 | 9.922810 | 13 | 30 | |
| | 40 | 9.737983 | 32 | 9.815188 | 46 | 0.184812 | 9.922796 | 14 | 20 | |
| | 50 | 9.738016 | 33 | 9.815234 | 46 | 0.184766 | 9.922782 | 14 | 10 | |
| | 10 | 0 | 9.738048 | 32 | 9.815280 | 46 | 0.184720 | 9.922768 | 14 | 0 |
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| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.738048 | 32 | 9.815280 | 46 | 0.184720 | 9.922768 | 13 | 0 | 50 |
| | 10 | 9.738080 | 32 | 9.815326 | 46 | 0.184674 | 9.922755 | 14 | 50 | |
| | 20 | 9.738112 | 32 | 9.815371 | 46 | 0.184629 | 9.922741 | 14 | 40 | |
| | 30 | 9.738145 | 32 | 9.815417 | 46 | 0.184583 | 9.922727 | 14 | 30 | |
| | 40 | 9.738177 | 32 | 9.815463 | 46 | 0.184537 | 9.922713 | 14 | 20 | |
| | 50 | 9.738209 | 32 | 9.815509 | 46 | 0.184491 | 9.922699 | 13 | 10 | |
| 11 | 0 | 9.738241 | 32 | 9.815555 | 46 | 0.184445 | 9.922685 | 14 | 0 | 49 |
| | 10 | 9.738273 | 32 | 9.815601 | 46 | 0.184400 | 9.922671 | 14 | 50 | |
| | 20 | 9.738306 | 32 | 9.815647 | 46 | 0.184353 | 9.922658 | 14 | 40 | |
| | 30 | 9.738338 | 32 | 9.815693 | 46 | 0.184307 | 9.922644 | 14 | 30 | |
| | 40 | 9.738370 | 32 | 9.815739 | 46 | 0.184261 | 9.922631 | 13 | 20 | |
| | 50 | 9.738402 | 32 | 9.815785 | 46 | 0.184215 | 9.922617 | 14 | 10 | |
| 12 | 0 | 9.738434 | 32 | 9.815831 | 46 | 0.184169 | 9.922603 | 14 | 0 | 48 |
| | 10 | 9.738466 | 32 | 9.815877 | 46 | 0.184123 | 9.922589 | 13 | 50 | |
| | 20 | 9.738499 | 32 | 9.815923 | 46 | 0.184077 | 9.922576 | 14 | 40 | |
| | 30 | 9.738531 | 32 | 9.815969 | 46 | 0.184031 | 9.922562 | 14 | 30 | |
| | 40 | 9.738563 | 32 | 9.816015 | 46 | 0.183985 | 9.922548 | 14 | 20 | |
| | 50 | 9.738595 | 32 | 9.816061 | 46 | 0.183939 | 9.922534 | 14 | 10 | |
| 13 | 0 | 9.738627 | 32 | 9.816107 | 46 | 0.183893 | 9.922520 | 13 | 0 | 47 |
| | 10 | 9.738659 | 32 | 9.816153 | 46 | 0.183847 | 9.922507 | 14 | 50 | |
| | 20 | 9.738692 | 32 | 9.816199 | 46 | 0.183801 | 9.922493 | 14 | 40 | |
| | 30 | 9.738724 | 32 | 9.816245 | 46 | 0.183755 | 9.922479 | 14 | 30 | |
| | 40 | 9.738756 | 32 | 9.816291 | 46 | 0.183709 | 9.922465 | 14 | 20 | |
| | 50 | 9.738788 | 32 | 9.816336 | 46 | 0.183664 | 9.922452 | 13 | 10 | |
| 14 | 0 | 9.738820 | 32 | 9.816382 | 46 | 0.183618 | 9.922438 | 14 | 0 | 46 |
| | 10 | 9.738852 | 32 | 9.816428 | 46 | 0.183572 | 9.922424 | 14 | 50 | |
| | 20 | 9.738884 | 32 | 9.816474 | 46 | 0.183526 | 9.922410 | 14 | 40 | |
| | 30 | 9.738917 | 32 | 9.816520 | 46 | 0.183480 | 9.922396 | 14 | 30 | |
| | 40 | 9.738949 | 32 | 9.816566 | 46 | 0.183434 | 9.922383 | 13 | 20 | |
| | 50 | 9.738981 | 32 | 9.816612 | 46 | 0.183388 | 9.922369 | 14 | 10 | |
| 15 | 0 | 9.739013 | 32 | 9.816658 | 46 | 0.183342 | 9.922355 | 14 | 0 | 45 |
| | 10 | 9.739045 | 32 | 9.816704 | 46 | 0.183296 | 9.922341 | 14 | 50 | |
| | 20 | 9.739077 | 32 | 9.816750 | 46 | 0.183250 | 9.922327 | 14 | 40 | |
| | 30 | 9.739109 | 32 | 9.816796 | 46 | 0.183204 | 9.922313 | 13 | 30 | |
| | 40 | 9.739141 | 32 | 9.816842 | 46 | 0.183158 | 9.922300 | 13 | 20 | |
| | 50 | 9.739173 | 32 | 9.816888 | 46 | 0.183112 | 9.922286 | 14 | 10 | |
| 16 | 0 | 9.739206 | 32 | 9.816933 | 46 | 0.183067 | 9.922272 | 14 | 0 | 44 |
| | 10 | 9.739238 | 32 | 9.816979 | 46 | 0.183021 | 9.922258 | 14 | 50 | |
| | 20 | 9.739270 | 32 | 9.817025 | 46 | 0.182975 | 9.922244 | 14 | 40 | |
| | 30 | 9.739302 | 32 | 9.817071 | 46 | 0.182929 | 9.922231 | 13 | 30 | |
| | 40 | 9.739334 | 32 | 9.817117 | 46 | 0.182883 | 9.922217 | 14 | 20 | |
| | 50 | 9.739366 | 32 | 9.817163 | 46 | 0.182837 | 9.922203 | 14 | 10 | |
| 17 | 0 | 9.739398 | 32 | 9.817209 | 46 | 0.182791 | 9.922189 | 14 | 0 | 43 |
| | 10 | 9.739430 | 32 | 9.817255 | 46 | 0.182745 | 9.922175 | 13 | 50 | |
| | 20 | 9.739462 | 32 | 9.817301 | 46 | 0.182699 | 9.922162 | 14 | 40 | |
| | 30 | 9.739494 | 32 | 9.817347 | 46 | 0.182653 | 9.922148 | 14 | 30 | |
| | 40 | 9.739526 | 32 | 9.817392 | 46 | 0.182608 | 9.922134 | 14 | 20 | |
| | 50 | 9.739558 | 32 | 9.817438 | 46 | 0.182562 | 9.922120 | 14 | 10 | |
| 18 | 0 | 9.739590 | 32 | 9.817484 | 46 | 0.182516 | 9.922106 | 14 | 0 | 42 |
| | 10 | 9.739622 | 32 | 9.817530 | 46 | 0.182470 | 9.922092 | 13 | 50 | |
| | 20 | 9.739654 | 32 | 9.817576 | 46 | 0.182424 | 9.922079 | 13 | 40 | |
| | 30 | 9.739687 | 32 | 9.817622 | 46 | 0.182378 | 9.922065 | 14 | 30 | |
| | 40 | 9.739719 | 32 | 9.817668 | 46 | 0.182332 | 9.922051 | 14 | 20 | |
| | 50 | 9.739751 | 32 | 9.817714 | 46 | 0.182286 | 9.922037 | 14 | 10 | |
| 19 | 0 | 9.739783 | 32 | 9.817759 | 46 | 0.182241 | 9.922023 | 14 | 0 | 41 |
| | 10 | 9.739815 | 32 | 9.817805 | 46 | 0.182195 | 9.922009 | 14 | 50 | |
| | 20 | 9.739847 | 32 | 9.817851 | 46 | 0.182149 | 9.921995 | 14 | 40 | |
| | 30 | 9.739879 | 32 | 9.817897 | 46 | 0.182103 | 9.921982 | 13 | 30 | |
| | 40 | 9.739911 | 32 | 9.817943 | 46 | 0.182057 | 9.921968 | 14 | 20 | |
| | 50 | 9.739943 | 32 | 9.817989 | 46 | 0.182011 | 9.921954 | 14 | 10 | |
| 20 | 0 | 9.739975 | 32 | 9.818035 | 46 | 0.181965 | 9.921940 | 14 | 0 | 40 |

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| | ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 46 | 1 | 20 | 0 | 32 | 9.818035 | 46 | 0.181965 | 9.921940 | 14 | 0 | 40 |
| 4.6 | 10 | 10 | 9.740007 | 32 | 9.818081 | 46 | 0.181919 | 9.921926 | 14 | 50 | |
| 2.9.2 | 20 | 20 | 9.740039 | 32 | 9.818126 | 46 | 0.181874 | 9.921912 | 14 | 40 | |
| 13.8 | 30 | 30 | 9.740071 | 32 | 9.818172 | 46 | 0.181828 | 9.921899 | 14 | 30 | |
| 18.4 | 40 | 40 | 9.740103 | 32 | 9.818218 | 46 | 0.181782 | 9.921885 | 14 | 20 | |
| 23.0 | 50 | 50 | 9.740135 | 32 | 9.818264 | 46 | 0.181736 | 9.921871 | 14 | 10 | |
| 27.6 | 0 | 0 | 9.740167 | 32 | 9.818310 | 46 | 0.181690 | 9.921857 | 14 | 0 | 39 |
| 32.2 | 10 | 10 | 9.740199 | 32 | 9.818356 | 46 | 0.181644 | 9.921843 | 14 | 50 | |
| 36.8 | 20 | 20 | 9.740231 | 32 | 9.818402 | 46 | 0.181598 | 9.921829 | 14 | 40 | |
| 41.4 | 30 | 30 | 9.740263 | 32 | 9.818447 | 45 | 0.181553 | 9.921815 | 14 | 30 | |
| | 40 | 40 | 9.740295 | 32 | 9.818493 | 46 | 0.181507 | 9.921802 | 14 | 20 | |
| | 50 | 50 | 9.740327 | 32 | 9.818539 | 46 | 0.181461 | 9.921788 | 14 | 10 | |
| 45 | 0 | 0 | 9.740359 | 32 | 9.818585 | 46 | 0.181415 | 9.921774 | 14 | 0 | 38 |
| 1.4.5 | 10 | 10 | 9.740391 | 32 | 9.818631 | 46 | 0.181369 | 9.921760 | 14 | 50 | |
| 2.9.0 | 20 | 20 | 9.740423 | 32 | 9.818677 | 46 | 0.181323 | 9.921746 | 14 | 40 | |
| 3.13.5 | 30 | 30 | 9.740455 | 32 | 9.818722 | 45 | 0.181277 | 9.921732 | 14 | 30 | |
| 4.18.0 | 40 | 40 | 9.740487 | 32 | 9.818768 | 46 | 0.181232 | 9.921718 | 14 | 20 | |
| 5.22.5 | 50 | 50 | 9.740519 | 31 | 9.818814 | 46 | 0.181186 | 9.921704 | 14 | 10 | |
| 6.27.0 | 0 | 0 | 9.740550 | 32 | 9.818860 | 46 | 0.181140 | 9.921691 | 14 | 0 | 37 |
| 7.31.5 | 10 | 10 | 9.740582 | 32 | 9.818906 | 46 | 0.181094 | 9.921677 | 14 | 50 | |
| 8.36.0 | 20 | 20 | 9.740614 | 32 | 9.818952 | 45 | 0.181048 | 9.921663 | 14 | 40 | |
| 9.40.5 | 30 | 30 | 9.740646 | 32 | 9.818997 | 46 | 0.181003 | 9.921649 | 14 | 30 | |
| | 40 | 40 | 9.740678 | 32 | 9.819043 | 46 | 0.180957 | 9.921635 | 14 | 20 | |
| | 50 | 50 | 9.740710 | 32 | 9.819089 | 46 | 0.180911 | 9.921621 | 14 | 10 | |
| * | 0 | 0 | 9.740742 | 32 | 9.819135 | 46 | 0.180865 | 9.921607 | 14 | 0 | 36 |
| | 10 | 10 | 9.740774 | 32 | 9.819181 | 46 | 0.180819 | 9.921593 | 14 | 50 | |
| 32 | 20 | 20 | 9.740806 | 32 | 9.819226 | 45 | 0.180774 | 9.921580 | 14 | 40 | |
| 1.3.2 | 30 | 30 | 9.740838 | 32 | 9.819272 | 46 | 0.180728 | 9.921566 | 14 | 30 | |
| 2.6.4 | 40 | 40 | 9.740870 | 32 | 9.819318 | 46 | 0.180682 | 9.921552 | 14 | 20 | |
| 3.9.6 | 50 | 50 | 9.740902 | 32 | 9.819364 | 46 | 0.180636 | 9.921538 | 14 | 10 | |
| 4.12.8 | 0 | 0 | 9.740934 | 32 | 9.819410 | 45 | 0.180590 | 9.921524 | 14 | 0 | 35 |
| 5.16.0 | 10 | 10 | 9.740966 | 31 | 9.819455 | 46 | 0.180545 | 9.921510 | 14 | 50 | |
| 6.19.2 | 20 | 20 | 9.740997 | 32 | 9.819501 | 46 | 0.180499 | 9.921496 | 14 | 40 | |
| 7.22.4 | 30 | 30 | 9.741029 | 32 | 9.819547 | 46 | 0.180453 | 9.921482 | 14 | 30 | |
| 8.25.6 | 40 | 40 | 9.741061 | 32 | 9.819593 | 46 | 0.180407 | 9.921468 | 14 | 20 | |
| 9.28.8 | 50 | 50 | 9.741093 | 32 | 9.819639 | 45 | 0.180361 | 9.921455 | 14 | 10 | |
| | 0 | 0 | 9.741125 | 32 | 9.819684 | 46 | 0.180316 | 9.921441 | 14 | 0 | 34 |
| 31 | 10 | 10 | 9.741157 | 32 | 9.819730 | 46 | 0.180270 | 9.921427 | 14 | 50 | |
| 1.3.1 | 20 | 20 | 9.741189 | 32 | 9.819776 | 46 | 0.180224 | 9.921413 | 14 | 40 | |
| 2.6.2 | 30 | 30 | 9.741221 | 32 | 9.819822 | 46 | 0.180178 | 9.921399 | 14 | 30 | |
| 3.9.5 | 40 | 40 | 9.741253 | 32 | 9.819868 | 46 | 0.180132 | 9.921385 | 14 | 20 | |
| 4.12.4 | 50 | 50 | 9.741284 | 32 | 9.819913 | 45 | 0.180087 | 9.921371 | 14 | 10 | |
| 5.15.5 | 0 | 0 | 9.741316 | 32 | 9.819959 | 46 | 0.180041 | 9.921357 | 14 | 0 | 33 |
| 6.18.6 | 10 | 10 | 9.741348 | 32 | 9.820005 | 46 | 0.179995 | 9.921343 | 14 | 50 | |
| 7.21.7 | 20 | 20 | 9.741380 | 32 | 9.820051 | 45 | 0.179949 | 9.921329 | 14 | 40 | |
| 8.24.8 | 30 | 30 | 9.741412 | 32 | 9.820096 | 46 | 0.179904 | 9.921315 | 14 | 30 | |
| 9.27.9 | 40 | 40 | 9.741444 | 32 | 9.820142 | 46 | 0.179858 | 9.921302 | 14 | 20 | |
| | 50 | 50 | 9.741476 | 32 | 9.820188 | 46 | 0.179812 | 9.921288 | 14 | 10 | |
| * | 0 | 0 | 9.741508 | 32 | 9.820234 | 46 | 0.179766 | 9.921274 | 14 | 0 | 32 |
| | 10 | 10 | 9.741539 | 31 | 9.820280 | 45 | 0.179720 | 9.921260 | 14 | 50 | |
| | 20 | 20 | 9.741571 | 32 | 9.820325 | 46 | 0.179675 | 9.921246 | 14 | 40 | |
| 13 | 30 | 30 | 9.741603 | 32 | 9.820371 | 46 | 0.179629 | 9.921232 | 14 | 30 | |
| 1.1.3 | 40 | 40 | 9.741635 | 32 | 9.820417 | 46 | 0.179583 | 9.921218 | 14 | 20 | |
| 2.2.6 | 50 | 50 | 9.741667 | 32 | 9.820463 | 46 | 0.179537 | 9.921204 | 14 | 10 | |
| 3.3.9 | 0 | 0 | 9.741699 | 32 | 9.820508 | 45 | 0.179492 | 9.921190 | 14 | 0 | 31 |
| 4.5.2 | 10 | 10 | 9.741730 | 31 | 9.820554 | 46 | 0.179446 | 9.921176 | 14 | 50 | |
| 5.6.5 | 20 | 20 | 9.741762 | 32 | 9.820600 | 46 | 0.179400 | 9.921162 | 14 | 40 | |
| 6.7.8 | 30 | 30 | 9.741794 | 32 | 9.820646 | 46 | 0.179354 | 9.921148 | 14 | 30 | |
| 7.9.1 | 40 | 40 | 9.741826 | 32 | 9.820691 | 45 | 0.179309 | 9.921134 | 14 | 20 | |
| 8.10.4 | 50 | 50 | 9.741858 | 32 | 9.820737 | 46 | 0.179263 | 9.921121 | 14 | 10 | |
| 9.11.7 | 0 | 0 | 9.741889 | 31 | 9.820783 | 46 | 0.179217 | 9.921107 | 14 | 0 | 30 |
| | ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.741889 | 32 | 9.820783 | 46 | 0.179217 | 9.921107 | 14 | 0 | 30 |
| | 10 | 9.741921 | 32 | 9.820829 | 46 | 0.179171 | 9.921093 | 14 | 50 | |
| | 20 | 9.741953 | 32 | 9.820874 | 45 | 0.179126 | 9.921079 | 14 | 40 | |
| | 30 | 9.741985 | 32 | 9.820920 | 46 | 0.179080 | 9.921065 | 14 | 30 | |
| | 40 | 9.742017 | 32 | 9.820966 | 46 | 0.179034 | 9.921051 | 14 | 20 | |
| | 50 | 9.742049 | 31 | 9.821012 | 46 | 0.178988 | 9.921037 | 14 | 10 | |
| 31 | 0 | 9.742080 | 32 | 9.821057 | 45 | 0.178943 | 9.921023 | 14 | 0 | 29 |
| | 10 | 9.742112 | 32 | 9.821103 | 46 | 0.178897 | 9.921009 | 14 | 50 | |
| | 20 | 9.742144 | 32 | 9.821149 | 46 | 0.178851 | 9.920995 | 14 | 40 | |
| | 30 | 9.742176 | 32 | 9.821195 | 46 | 0.178805 | 9.920981 | 14 | 30 | |
| | 40 | 9.742207 | 31 | 9.821240 | 45 | 0.178760 | 9.920967 | 14 | 20 | |
| | 50 | 9.742239 | 32 | 9.821286 | 46 | 0.178714 | 9.920953 | 14 | 10 | |
| 32 | 0 | 9.742271 | 32 | 9.821332 | 46 | 0.178668 | 9.920939 | 14 | 0 | 28 |
| | 10 | 9.742303 | 32 | 9.821377 | 45 | 0.178623 | 9.920925 | 14 | 50 | |
| | 20 | 9.742335 | 31 | 9.821423 | 46 | 0.178577 | 9.920911 | 14 | 40 | |
| | 30 | 9.742366 | 32 | 9.821469 | 46 | 0.178531 | 9.920897 | 14 | 30 | |
| | 40 | 9.742398 | 32 | 9.821515 | 46 | 0.178485 | 9.920883 | 14 | 20 | |
| | 50 | 9.742430 | 32 | 9.821560 | 45 | 0.178440 | 9.920869 | 13 | 10 | |
| 33 | 0 | 9.742462 | 31 | 9.821606 | 46 | 0.178394 | 9.920855 | 14 | 0 | 27 |
| | 10 | 9.742493 | 32 | 9.821652 | 46 | 0.178348 | 9.920842 | 14 | 50 | |
| | 20 | 9.742525 | 32 | 9.821697 | 45 | 0.178303 | 9.920828 | 14 | 40 | |
| | 30 | 9.742557 | 32 | 9.821743 | 46 | 0.178257 | 9.920814 | 14 | 30 | |
| | 40 | 9.742589 | 32 | 9.821789 | 46 | 0.178211 | 9.920800 | 14 | 20 | |
| | 50 | 9.742620 | 31 | 9.821835 | 46 | 0.178165 | 9.920786 | 14 | 10 | |
| 34 | 0 | 9.742652 | 32 | 9.821880 | 45 | 0.178120 | 9.920772 | 14 | 0 | 26 |
| | 10 | 9.742684 | 31 | 9.821926 | 46 | 0.178074 | 9.920758 | 14 | 50 | |
| | 20 | 9.742715 | 32 | 9.821972 | 46 | 0.178028 | 9.920744 | 14 | 40 | |
| | 30 | 9.742747 | 32 | 9.822017 | 45 | 0.177983 | 9.920730 | 14 | 30 | |
| | 40 | 9.742779 | 32 | 9.822063 | 46 | 0.177937 | 9.920716 | 14 | 20 | |
| | 50 | 9.742811 | 31 | 9.822109 | 46 | 0.177891 | 9.920702 | 14 | 10 | |
| 35 | 0 | 9.742842 | 32 | 9.822154 | 45 | 0.177846 | 9.920688 | 14 | 0 | 25 |
| | 10 | 9.742874 | 32 | 9.822200 | 46 | 0.177800 | 9.920674 | 14 | 50 | |
| | 20 | 9.742906 | 31 | 9.822246 | 46 | 0.177754 | 9.920660 | 14 | 40 | |
| | 30 | 9.742937 | 32 | 9.822292 | 46 | 0.177708 | 9.920646 | 14 | 30 | |
| | 40 | 9.742969 | 32 | 9.822337 | 45 | 0.177663 | 9.920632 | 14 | 20 | |
| | 50 | 9.743001 | 32 | 9.822383 | 46 | 0.177617 | 9.920618 | 14 | 10 | |
| 36 | 0 | 9.743033 | 31 | 9.822429 | 46 | 0.177571 | 9.920604 | 14 | 0 | 24 |
| | 10 | 9.743064 | 32 | 9.822474 | 45 | 0.177526 | 9.920590 | 14 | 50 | |
| | 20 | 9.743096 | 32 | 9.822520 | 46 | 0.177480 | 9.920576 | 14 | 40 | |
| | 30 | 9.743128 | 32 | 9.822566 | 46 | 0.177434 | 9.920562 | 14 | 30 | |
| | 40 | 9.743159 | 31 | 9.822611 | 45 | 0.177389 | 9.920548 | 14 | 20 | |
| | 50 | 9.743191 | 32 | 9.822657 | 46 | 0.177343 | 9.920534 | 14 | 10 | |
| 37 | 0 | 9.743223 | 31 | 9.822703 | 46 | 0.177297 | 9.920520 | 14 | 0 | 23 |
| | 10 | 9.743254 | 32 | 9.822748 | 45 | 0.177252 | 9.920506 | 14 | 50 | |
| | 20 | 9.743286 | 32 | 9.822794 | 46 | 0.177206 | 9.920492 | 14 | 40 | |
| | 30 | 9.743318 | 32 | 9.822840 | 46 | 0.177160 | 9.920478 | 14 | 30 | |
| | 40 | 9.743349 | 31 | 9.822885 | 45 | 0.177115 | 9.920464 | 14 | 20 | |
| | 50 | 9.743381 | 32 | 9.822931 | 46 | 0.177069 | 9.920450 | 14 | 10 | |
| 38 | 0 | 9.743413 | 32 | 9.822977 | 46 | 0.177023 | 9.920436 | 14 | 0 | 22 |
| | 10 | 9.743444 | 31 | 9.823022 | 45 | 0.176978 | 9.920422 | 14 | 50 | |
| | 20 | 9.743476 | 32 | 9.823068 | 46 | 0.176932 | 9.920408 | 14 | 40 | |
| | 30 | 9.743508 | 32 | 9.823114 | 46 | 0.176886 | 9.920394 | 14 | 30 | |
| | 40 | 9.743539 | 31 | 9.823159 | 45 | 0.176841 | 9.920380 | 14 | 20 | |
| | 50 | 9.743571 | 32 | 9.823205 | 46 | 0.176795 | 9.920366 | 14 | 10 | |
| 39 | 0 | 9.743602 | 31 | 9.823251 | 46 | 0.176750 | 9.920352 | 14 | 0 | 21 |
| | 10 | 9.743634 | 32 | 9.823296 | 45 | 0.176704 | 9.920338 | 14 | 50 | |
| | 20 | 9.743666 | 32 | 9.823342 | 46 | 0.176658 | 9.920324 | 14 | 40 | |
| | 30 | 9.743697 | 31 | 9.823387 | 45 | 0.176613 | 9.920310 | 14 | 30 | |
| | 40 | 9.743729 | 32 | 9.823433 | 46 | 0.176567 | 9.920296 | 14 | 20 | |
| | 50 | 9.743761 | 32 | 9.823479 | 46 | 0.176521 | 9.920282 | 14 | 10 | |
| 40 | 0 | 9.743792 | 31 | 9.823524 | 45 | 0.176476 | 9.920268 | 14 | 0 | 20 |

46
1 4.6
2 9.2
3 13.8
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6 27.6
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7 31.5
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7 9.8
8 11.2
9 12.6

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 46 | 0 | 9.743792 | 32 | 9.823524 | 46 | 0.176476 | 9.920268 | 14 | 0 | 20 |
| 1 4.6 | 10 | 9.743824 | 31 | 9.823570 | 46 | 0.176430 | 9.920254 | 14 | 50 | |
| 2 9.2 | 20 | 9.743855 | 32 | 9.823616 | 45 | 0.176384 | 9.920240 | 14 | 40 | |
| 3 13.8 | 30 | 9.743887 | 32 | 9.823661 | 45 | 0.176339 | 9.920226 | 14 | 30 | |
| 4 18.4 | 40 | 9.743919 | 32 | 9.823707 | 46 | 0.176293 | 9.920212 | 14 | 20 | |
| 5 23.0 | 50 | 9.743950 | 32 | 9.823753 | 45 | 0.176247 | 9.920198 | 14 | 10 | |
| 6 27.6 | 0 | 9.743982 | 31 | 9.823798 | 46 | 0.176202 | 9.920184 | 14 | 0 | 19 |
| 7 32.2 | 10 | 9.744013 | 32 | 9.823844 | 45 | 0.176156 | 9.920170 | 14 | 50 | |
| 8 36.8 | 20 | 9.744045 | 32 | 9.823889 | 46 | 0.176111 | 9.920156 | 14 | 40 | |
| 9 41.4 | 30 | 9.744077 | 32 | 9.823935 | 45 | 0.176065 | 9.920141 | 14 | 30 | |
| | 40 | 9.744108 | 31 | 9.823981 | 46 | 0.176019 | 9.920127 | 14 | 20 | |
| | 50 | 9.744140 | 32 | 9.824026 | 45 | 0.175974 | 9.920113 | 14 | 10 | |
| 45 | 0 | 9.744171 | 32 | 9.824072 | 46 | 0.175928 | 9.920099 | 14 | 0 | 18 |
| 1 4.5 | 10 | 9.744203 | 31 | 9.824117 | 45 | 0.175883 | 9.920085 | 14 | 50 | |
| 2 9.0 | 20 | 9.744234 | 32 | 9.824163 | 46 | 0.175837 | 9.920071 | 14 | 40 | |
| 3 13.5 | 30 | 9.744266 | 32 | 9.824209 | 45 | 0.175791 | 9.920057 | 14 | 30 | |
| 4 18.0 | 40 | 9.744297 | 31 | 9.824254 | 46 | 0.175746 | 9.920043 | 14 | 20 | |
| 5 22.5 | 50 | 9.744329 | 32 | 9.824300 | 45 | 0.175700 | 9.920029 | 14 | 10 | |
| 6 27.0 | 0 | 9.744361 | 32 | 9.824345 | 46 | 0.175655 | 9.920015 | 14 | 0 | 17 |
| 7 31.5 | 10 | 9.744392 | 31 | 9.824391 | 45 | 0.175609 | 9.920001 | 14 | 50 | |
| 8 36.0 | 20 | 9.744424 | 31 | 9.824437 | 46 | 0.175563 | 9.919987 | 14 | 40 | |
| 9 40.5 | 30 | 9.744455 | 32 | 9.824482 | 45 | 0.175518 | 9.919973 | 14 | 30 | |
| | 40 | 9.744487 | 32 | 9.824528 | 46 | 0.175472 | 9.919959 | 14 | 20 | |
| | 50 | 9.744518 | 31 | 9.824573 | 45 | 0.175427 | 9.919945 | 14 | 10 | |
| * | 0 | 9.744550 | 32 | 9.824619 | 46 | 0.175381 | 9.919931 | 14 | 0 | 16 |
| | 10 | 9.744581 | 32 | 9.824665 | 45 | 0.175335 | 9.919917 | 14 | 50 | |
| 32 | 20 | 9.744613 | 32 | 9.824710 | 46 | 0.175290 | 9.919903 | 14 | 40 | |
| 1 3.2 | 30 | 9.744644 | 31 | 9.824756 | 45 | 0.175244 | 9.919889 | 14 | 30 | |
| 2 6.4 | 40 | 9.744676 | 32 | 9.824801 | 46 | 0.175199 | 9.919875 | 14 | 20 | |
| 3 9.6 | 50 | 9.744707 | 31 | 9.824847 | 45 | 0.175153 | 9.919860 | 14 | 10 | |
| 4 12.8 | 0 | 9.744739 | 32 | 9.824893 | 46 | 0.175107 | 9.919846 | 14 | 0 | 15 |
| 5 16.0 | 10 | 9.744770 | 31 | 9.824938 | 45 | 0.175062 | 9.919832 | 14 | 50 | |
| 6 19.2 | 20 | 9.744802 | 32 | 9.824984 | 46 | 0.175016 | 9.919818 | 14 | 40 | |
| 7 22.4 | 30 | 9.744833 | 32 | 9.825029 | 45 | 0.174971 | 9.919804 | 14 | 30 | |
| 8 25.6 | 40 | 9.744865 | 32 | 9.825075 | 46 | 0.174925 | 9.919790 | 14 | 20 | |
| 9 28.8 | 50 | 9.744896 | 32 | 9.825120 | 45 | 0.174880 | 9.919776 | 14 | 10 | |
| | 0 | 9.744928 | 31 | 9.825166 | 46 | 0.174834 | 9.919762 | 14 | 0 | 14 |
| 31 | 10 | 9.744959 | 32 | 9.825212 | 45 | 0.174788 | 9.919748 | 14 | 50 | |
| 1 3.1 | 20 | 9.744991 | 31 | 9.825257 | 46 | 0.174743 | 9.919734 | 14 | 40 | |
| 2 6.2 | 30 | 9.745022 | 32 | 9.825303 | 45 | 0.174697 | 9.919720 | 14 | 30 | |
| 3 9.3 | 40 | 9.745054 | 32 | 9.825348 | 46 | 0.174652 | 9.919706 | 14 | 20 | |
| 4 12.4 | 50 | 9.745085 | 31 | 9.825394 | 45 | 0.174606 | 9.919692 | 14 | 10 | |
| 5 15.5 | 0 | 9.745117 | 32 | 9.825439 | 46 | 0.174561 | 9.919677 | 14 | 0 | 13 |
| 6 18.6 | 10 | 9.745148 | 31 | 9.825485 | 45 | 0.174515 | 9.919663 | 14 | 50 | |
| 7 21.7 | 20 | 9.745180 | 32 | 9.825531 | 46 | 0.174469 | 9.919649 | 14 | 40 | |
| 8 24.8 | 30 | 9.745211 | 32 | 9.825576 | 45 | 0.174424 | 9.919635 | 14 | 30 | |
| 9 27.9 | 40 | 9.745243 | 32 | 9.825622 | 46 | 0.174378 | 9.919621 | 14 | 20 | |
| | 50 | 9.745274 | 31 | 9.825667 | 45 | 0.174333 | 9.919607 | 14 | 10 | |
| * | 0 | 9.745306 | 32 | 9.825713 | 46 | 0.174287 | 9.919593 | 14 | 0 | 12 |
| | 10 | 9.745337 | 31 | 9.825758 | 45 | 0.174242 | 9.919579 | 14 | 50 | |
| 14 | 20 | 9.745369 | 32 | 9.825804 | 46 | 0.174196 | 9.919565 | 14 | 40 | |
| 1 1.4 | 30 | 9.745400 | 31 | 9.825849 | 45 | 0.174151 | 9.919551 | 14 | 30 | |
| 2 2.8 | 40 | 9.745431 | 32 | 9.825895 | 46 | 0.174105 | 9.919537 | 14 | 20 | |
| 3 4.2 | 50 | 9.745463 | 31 | 9.825940 | 45 | 0.174059 | 9.919522 | 14 | 10 | |
| 4 5.6 | 0 | 9.745494 | 32 | 9.825986 | 46 | 0.174014 | 9.919508 | 14 | 0 | 11 |
| 5 7.0 | 10 | 9.745526 | 31 | 9.826032 | 45 | 0.173968 | 9.919494 | 14 | 50 | |
| 6 8.4 | 20 | 9.745557 | 32 | 9.826077 | 46 | 0.173923 | 9.919480 | 14 | 40 | |
| 7 9.8 | 30 | 9.745589 | 32 | 9.826123 | 45 | 0.173877 | 9.919466 | 14 | 30 | |
| 8 11.2 | 40 | 9.745620 | 31 | 9.826168 | 46 | 0.173832 | 9.919452 | 14 | 20 | |
| 9 12.6 | 50 | 9.745651 | 32 | 9.826214 | 45 | 0.173786 | 9.919438 | 14 | 10 | |
| | 0 | 9.745683 | 32 | 9.826259 | 46 | 0.173741 | 9.919424 | 14 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.745683 | 31 | 9.826259 | 46 | 0.173741 | 9.919424 | 14 | 0 | 10 |
| | 10 | 9.745714 | 32 | 9.826305 | 45 | 0.173695 | 9.919410 | 15 | 50 | 46 |
| | 20 | 9.745746 | 31 | 9.826350 | 46 | 0.173650 | 9.919395 | 14 | 40 | 1 4.6 |
| | 30 | 9.745777 | 31 | 9.826396 | 45 | 0.173604 | 9.919381 | 14 | 30 | 2 9.2 |
| | 40 | 9.745808 | 31 | 9.826441 | 45 | 0.173559 | 9.919367 | 14 | 20 | 3 13.8 |
| | 50 | 9.745840 | 32 | 9.826487 | 46 | 0.173513 | 9.919353 | 14 | 10 | 4 18.4 |
| 51 | 0 | 9.745871 | 31 | 9.826532 | 45 | 0.173468 | 9.919339 | 14 | 0 | 5 23.0 |
| | 10 | 9.745903 | 32 | 9.826578 | 46 | 0.173422 | 9.919325 | 14 | 50 | 6 27.6 |
| | 20 | 9.745934 | 31 | 9.826623 | 45 | 0.173377 | 9.919311 | 14 | 40 | 7 32.2 |
| | 30 | 9.745965 | 31 | 9.826669 | 45 | 0.173331 | 9.919297 | 14 | 30 | 8 36.8 |
| | 40 | 9.745997 | 32 | 9.826714 | 46 | 0.173286 | 9.919282 | 15 | 20 | 9 41.4 |
| | 50 | 9.746028 | 31 | 9.826760 | 45 | 0.173240 | 9.919268 | 14 | 10 | |
| 52 | 0 | 9.746060 | 32 | 9.826805 | 46 | 0.173195 | 9.919254 | 14 | 0 | 8 |
| | 10 | 9.746091 | 31 | 9.826851 | 45 | 0.173149 | 9.919240 | 14 | 50 | 1 4.5 |
| | 20 | 9.746122 | 31 | 9.826896 | 46 | 0.173104 | 9.919226 | 14 | 40 | 2 9.0 |
| | 30 | 9.746154 | 32 | 9.826942 | 45 | 0.173058 | 9.919212 | 14 | 30 | 3 13.5 |
| | 40 | 9.746185 | 31 | 9.826987 | 45 | 0.173013 | 9.919198 | 14 | 20 | 4 18.0 |
| | 50 | 9.746216 | 32 | 9.827033 | 46 | 0.172967 | 9.919184 | 14 | 10 | 5 22.5 |
| 53 | 0 | 9.746248 | 31 | 9.827078 | 45 | 0.172922 | 9.919169 | 15 | 0 | 6 27.0 |
| | 10 | 9.746279 | 31 | 9.827124 | 46 | 0.172876 | 9.919155 | 14 | 50 | 7 31.5 |
| | 20 | 9.746310 | 32 | 9.827169 | 45 | 0.172831 | 9.919141 | 14 | 40 | 8 36.0 |
| | 30 | 9.746342 | 31 | 9.827215 | 46 | 0.172785 | 9.919127 | 14 | 30 | 9 40.5 |
| | 40 | 9.746373 | 32 | 9.827260 | 45 | 0.172740 | 9.919113 | 14 | 20 | |
| | 50 | 9.746404 | 31 | 9.827306 | 46 | 0.172694 | 9.919099 | 14 | 10 | |
| 54 | 0 | 9.746436 | 32 | 9.827351 | 45 | 0.172649 | 9.919085 | 14 | 0 | 6 |
| | 10 | 9.746467 | 31 | 9.827397 | 46 | 0.172603 | 9.919070 | 15 | 50 | |
| | 20 | 9.746498 | 31 | 9.827442 | 45 | 0.172558 | 9.919056 | 14 | 40 | 1 32 |
| | 30 | 9.746530 | 32 | 9.827488 | 46 | 0.172512 | 9.919042 | 14 | 30 | 2 3.2 |
| | 40 | 9.746561 | 31 | 9.827533 | 45 | 0.172467 | 9.919028 | 14 | 20 | 3 6.4 |
| | 50 | 9.746592 | 32 | 9.827579 | 46 | 0.172421 | 9.919014 | 14 | 10 | 3 9.6 |
| 55 | 0 | 9.746624 | 31 | 9.827624 | 45 | 0.172376 | 9.919000 | 14 | 0 | 4 12.8 |
| | 10 | 9.746655 | 32 | 9.827670 | 46 | 0.172330 | 9.918985 | 15 | 50 | 5 16.0 |
| | 20 | 9.746686 | 31 | 9.827715 | 45 | 0.172285 | 9.918971 | 14 | 40 | 6 19.2 |
| | 30 | 9.746718 | 32 | 9.827761 | 46 | 0.172239 | 9.918957 | 14 | 30 | 7 22.4 |
| | 40 | 9.746749 | 31 | 9.827806 | 45 | 0.172194 | 9.918943 | 14 | 20 | 8 25.6 |
| | 50 | 9.746780 | 32 | 9.827851 | 46 | 0.172149 | 9.918929 | 14 | 10 | 9 28.8 |
| 56 | 0 | 9.746812 | 31 | 9.827897 | 45 | 0.172103 | 9.918915 | 14 | 0 | 4 |
| | 10 | 9.746843 | 32 | 9.827942 | 46 | 0.172058 | 9.918900 | 15 | 50 | 31 |
| | 20 | 9.746874 | 31 | 9.827988 | 45 | 0.172012 | 9.918886 | 14 | 40 | 1 3.1 |
| | 30 | 9.746905 | 32 | 9.828033 | 46 | 0.171967 | 9.918872 | 14 | 30 | 2 6.2 |
| | 40 | 9.746937 | 31 | 9.828079 | 45 | 0.171921 | 9.918858 | 14 | 20 | 3 9.3 |
| | 50 | 9.746968 | 32 | 9.828124 | 46 | 0.171876 | 9.918844 | 14 | 10 | 4 12.4 |
| 57 | 0 | 9.746999 | 31 | 9.828170 | 45 | 0.171830 | 9.918830 | 14 | 0 | 5 15.5 |
| | 10 | 9.747031 | 32 | 9.828215 | 46 | 0.171785 | 9.918815 | 15 | 50 | 6 18.6 |
| | 20 | 9.747062 | 31 | 9.828261 | 45 | 0.171740 | 9.918801 | 14 | 40 | 7 21.7 |
| | 30 | 9.747093 | 32 | 9.828306 | 46 | 0.171694 | 9.918787 | 14 | 30 | 8 24.8 |
| | 40 | 9.747124 | 31 | 9.828351 | 45 | 0.171649 | 9.918773 | 14 | 20 | 9 27.9 |
| | 50 | 9.747156 | 32 | 9.828397 | 46 | 0.171603 | 9.918759 | 14 | 10 | |
| 58 | 0 | 9.747187 | 31 | 9.828442 | 45 | 0.171558 | 9.918745 | 14 | 0 | * |
| | 10 | 9.747218 | 32 | 9.828488 | 46 | 0.171512 | 9.918730 | 15 | 50 | |
| | 20 | 9.747249 | 31 | 9.828533 | 45 | 0.171467 | 9.918716 | 14 | 40 | 15 |
| | 30 | 9.747281 | 32 | 9.828579 | 46 | 0.171421 | 9.918702 | 14 | 30 | 1 1.5 |
| | 40 | 9.747312 | 31 | 9.828624 | 45 | 0.171376 | 9.918688 | 14 | 20 | 2 3.0 |
| | 50 | 9.747343 | 32 | 9.828669 | 46 | 0.171331 | 9.918674 | 14 | 10 | 3 4.5 |
| 59 | 0 | 9.747374 | 31 | 9.828715 | 45 | 0.171285 | 9.918659 | 15 | 0 | 4 6.0 |
| | 10 | 9.747406 | 32 | 9.828760 | 46 | 0.171240 | 9.918645 | 14 | 50 | 5 7.5 |
| | 20 | 9.747437 | 31 | 9.828806 | 45 | 0.171194 | 9.918631 | 14 | 40 | 6 9.0 |
| | 30 | 9.747468 | 32 | 9.828851 | 46 | 0.171149 | 9.918617 | 14 | 30 | 7 10.5 |
| | 40 | 9.747499 | 31 | 9.828897 | 45 | 0.171103 | 9.918603 | 14 | 20 | 8 12.0 |
| | 50 | 9.747530 | 32 | 9.828942 | 46 | 0.171058 | 9.918588 | 15 | 10 | 9 13.5 |
| 60 | 0 | 9.747562 | 31 | 9.828987 | 45 | 0.171013 | 9.918574 | 14 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 46 | 0 | 9.747562 | 31 | 9.828987 | 46 | 0.171013 | 9.918574 | 14 | 0 | 60 |
| 1 4.6 | 10 | 9.747593 | 31 | 9.829033 | 45 | 0.170967 | 9.918560 | 14 | 50 | |
| 2 9.2 | 20 | 9.747624 | 31 | 9.829078 | 46 | 0.170922 | 9.918546 | 14 | 40 | |
| 3 13.8 | 30 | 9.747655 | 31 | 9.829124 | 45 | 0.170876 | 9.918532 | 14 | 30 | |
| 4 18.4 | 40 | 9.747686 | 32 | 9.829169 | 46 | 0.170831 | 9.918517 | 14 | 20 | |
| 5 23.0 | 50 | 9.747718 | 31 | 9.829215 | 45 | 0.170785 | 9.918503 | 14 | 10 | |
| 6 27.6 | 1 | 9.747749 | 31 | 9.829260 | 45 | 0.170740 | 9.918489 | 14 | 0 | 59 |
| 7 32.2 | 10 | 9.747780 | 31 | 9.829305 | 46 | 0.170695 | 9.918475 | 14 | 50 | |
| 8 36.8 | 20 | 9.747811 | 31 | 9.829351 | 45 | 0.170649 | 9.918461 | 14 | 40 | |
| 9 41.4 | 30 | 9.747842 | 31 | 9.829396 | 46 | 0.170604 | 9.918446 | 14 | 30 | |
| | 40 | 9.747874 | 31 | 9.829442 | 45 | 0.170558 | 9.918432 | 14 | 20 | |
| | 50 | 9.747905 | 31 | 9.829487 | 45 | 0.170513 | 9.918418 | 14 | 10 | |
| 45 | 2 | 9.747936 | 31 | 9.829532 | 46 | 0.170468 | 9.918404 | 14 | 0 | 58 |
| 1 4.5 | 10 | 9.747967 | 31 | 9.829578 | 45 | 0.170422 | 9.918389 | 14 | 50 | |
| 2 9.0 | 20 | 9.747998 | 32 | 9.829623 | 46 | 0.170377 | 9.918375 | 14 | 40 | |
| 3 13.5 | 30 | 9.748030 | 31 | 9.829669 | 45 | 0.170331 | 9.918361 | 14 | 30 | |
| 4 18.0 | 40 | 9.748061 | 31 | 9.829714 | 46 | 0.170286 | 9.918347 | 14 | 20 | |
| 5 22.5 | 50 | 9.748092 | 31 | 9.829759 | 45 | 0.170241 | 9.918333 | 14 | 10 | |
| 6 27.0 | 3 | 9.748123 | 31 | 9.829805 | 46 | 0.170195 | 9.918318 | 14 | 0 | 57 |
| 7 31.5 | 10 | 9.748154 | 31 | 9.829850 | 45 | 0.170150 | 9.918304 | 14 | 50 | |
| 8 36.0 | 20 | 9.748185 | 31 | 9.829895 | 46 | 0.170105 | 9.918290 | 14 | 40 | |
| 9 40.5 | 30 | 9.748216 | 31 | 9.829941 | 45 | 0.170059 | 9.918276 | 14 | 30 | |
| | 40 | 9.748248 | 31 | 9.829986 | 46 | 0.170014 | 9.918261 | 14 | 20 | |
| | 50 | 9.748279 | 31 | 9.830032 | 45 | 0.169968 | 9.918247 | 14 | 10 | |
| * | 4 | 9.748310 | 31 | 9.830077 | 45 | 0.169923 | 9.918233 | 14 | 0 | 56 |
| | 10 | 9.748341 | 31 | 9.830122 | 46 | 0.169878 | 9.918219 | 14 | 50 | |
| 32 | 20 | 9.748372 | 31 | 9.830168 | 45 | 0.169832 | 9.918204 | 14 | 40 | |
| 1 3.2 | 30 | 9.748403 | 31 | 9.830213 | 46 | 0.169787 | 9.918190 | 14 | 30 | |
| 2 6.4 | 40 | 9.748434 | 32 | 9.830258 | 45 | 0.169742 | 9.918176 | 14 | 20 | |
| 3 9.6 | 50 | 9.748466 | 31 | 9.830304 | 46 | 0.169696 | 9.918162 | 14 | 10 | |
| 4 12.8 | 5 | 9.748497 | 31 | 9.830349 | 45 | 0.169651 | 9.918147 | 14 | 0 | 55 |
| 5 16.0 | 10 | 9.748528 | 31 | 9.830395 | 46 | 0.169605 | 9.918133 | 14 | 50 | |
| 6 19.2 | 20 | 9.748559 | 31 | 9.830440 | 45 | 0.169560 | 9.918119 | 14 | 40 | |
| 7 22.4 | 30 | 9.748590 | 31 | 9.830485 | 46 | 0.169515 | 9.918105 | 14 | 30 | |
| 8 25.6 | 40 | 9.748621 | 31 | 9.830531 | 45 | 0.169469 | 9.918090 | 14 | 20 | |
| 9 28.8 | 50 | 9.748652 | 31 | 9.830576 | 46 | 0.169424 | 9.918076 | 14 | 10 | |
| | 6 | 9.748683 | 31 | 9.830621 | 45 | 0.169379 | 9.918062 | 14 | 0 | 54 |
| 31 | 10 | 9.748714 | 31 | 9.830667 | 46 | 0.169333 | 9.918048 | 14 | 50 | |
| 1 3.1 | 20 | 9.748745 | 32 | 9.830712 | 45 | 0.169288 | 9.918033 | 14 | 40 | |
| 2 6.2 | 30 | 9.748777 | 31 | 9.830757 | 46 | 0.169243 | 9.918019 | 14 | 30 | |
| 3 9.3 | 40 | 9.748808 | 31 | 9.830803 | 45 | 0.169197 | 9.918005 | 14 | 20 | |
| 4 12.4 | 50 | 9.748839 | 31 | 9.830848 | 46 | 0.169152 | 9.917991 | 14 | 10 | |
| 5 15.5 | 7 | 9.748870 | 31 | 9.830893 | 45 | 0.169107 | 9.917977 | 14 | 0 | 53 |
| 6 18.6 | 10 | 9.748901 | 31 | 9.830939 | 46 | 0.169062 | 9.917963 | 14 | 50 | |
| 7 21.7 | 20 | 9.748932 | 31 | 9.830984 | 45 | 0.169017 | 9.917949 | 14 | 40 | |
| 8 24.8 | 30 | 9.748963 | 31 | 9.831029 | 46 | 0.168971 | 9.917934 | 14 | 30 | |
| 9 27.9 | 40 | 9.748994 | 31 | 9.831075 | 45 | 0.168925 | 9.917919 | 14 | 20 | |
| | 50 | 9.749025 | 31 | 9.831120 | 46 | 0.168880 | 9.917905 | 14 | 10 | |
| * | 8 | 9.749056 | 31 | 9.831165 | 45 | 0.168835 | 9.917891 | 14 | 0 | 52 |
| | 10 | 9.749087 | 31 | 9.831211 | 46 | 0.168789 | 9.917877 | 14 | 50 | |
| 14 | 20 | 9.749118 | 31 | 9.831256 | 45 | 0.168744 | 9.917862 | 14 | 40 | |
| 1 1.4 | 30 | 9.749149 | 31 | 9.831301 | 46 | 0.168699 | 9.917848 | 14 | 30 | |
| 2 2.8 | 40 | 9.749180 | 31 | 9.831347 | 45 | 0.168653 | 9.917834 | 14 | 20 | |
| 3 4.2 | 50 | 9.749212 | 31 | 9.831392 | 46 | 0.168608 | 9.917819 | 14 | 10 | |
| 4 5.6 | 9 | 9.749243 | 31 | 9.831437 | 45 | 0.168563 | 9.917805 | 14 | 0 | 51 |
| 5 7.0 | 10 | 9.749274 | 31 | 9.831483 | 46 | 0.168517 | 9.917791 | 14 | 50 | |
| 6 8.4 | 20 | 9.749305 | 31 | 9.831528 | 45 | 0.168472 | 9.917777 | 14 | 40 | |
| 7 9.8 | 30 | 9.749336 | 31 | 9.831573 | 46 | 0.168427 | 9.917762 | 14 | 30 | |
| 8 11.2 | 40 | 9.749367 | 31 | 9.831619 | 45 | 0.168381 | 9.917748 | 14 | 20 | |
| 9 12.6 | 50 | 9.749398 | 31 | 9.831664 | 46 | 0.168336 | 9.917734 | 14 | 10 | |
| | 10 | 9.749429 | 31 | 9.831709 | 45 | 0.168291 | 9.917719 | 14 | 0 | 50 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 10 | 0 | 9.749429 | 31 | 9.831709 | 46 | 0.168291 | 9.917719 | 14 | 0 | 50 |
| | 10 | 9.749460 | 31 | 9.831755 | 45 | 0.168245 | 9.917705 | 14 | 50 | 46 |
| | 20 | 9.749491 | 31 | 9.831800 | 45 | 0.168200 | 9.917691 | 14 | 40 | 1 4.6 |
| | 30 | 9.749522 | 31 | 9.831845 | 45 | 0.168155 | 9.917677 | 14 | 30 | 2 9.2 |
| | 40 | 9.749553 | 31 | 9.831891 | 46 | 0.168109 | 9.917662 | 15 | 20 | 3 13.8 |
| | 50 | 9.749584 | 31 | 9.831936 | 45 | 0.168064 | 9.917648 | 14 | 10 | 4 18.4 |
| 11 | 0 | 9.749615 | 31 | 9.831981 | 45 | 0.168019 | 9.917634 | 14 | 0 | 5 23.0 |
| | 10 | 9.749646 | 31 | 9.832026 | 45 | 0.167974 | 9.917619 | 15 | 50 | 6 27.6 |
| | 20 | 9.749677 | 31 | 9.832072 | 46 | 0.167928 | 9.917605 | 14 | 40 | 7 32.2 |
| | 30 | 9.749708 | 31 | 9.832117 | 45 | 0.167883 | 9.917591 | 14 | 30 | 8 36.8 |
| | 40 | 9.749739 | 31 | 9.832162 | 45 | 0.167838 | 9.917576 | 15 | 20 | 9 41.4 |
| | 50 | 9.749770 | 31 | 9.832208 | 46 | 0.167792 | 9.917562 | 14 | 10 | |
| 12 | 0 | 9.749801 | 31 | 9.832253 | 45 | 0.167747 | 9.917548 | 14 | 0 | 45 |
| | 10 | 9.749832 | 31 | 9.832298 | 45 | 0.167702 | 9.917534 | 15 | 50 | 1 4.5 |
| | 20 | 9.749863 | 31 | 9.832343 | 45 | 0.167657 | 9.917519 | 14 | 40 | 2 9.0 |
| | 30 | 9.749894 | 31 | 9.832389 | 46 | 0.167611 | 9.917505 | 14 | 30 | 3 13.5 |
| | 40 | 9.749925 | 31 | 9.832434 | 45 | 0.167566 | 9.917491 | 14 | 20 | 4 18.0 |
| | 50 | 9.749956 | 31 | 9.832479 | 45 | 0.167521 | 9.917476 | 15 | 10 | 5 22.5 |
| 13 | 0 | 9.749987 | 31 | 9.832525 | 46 | 0.167475 | 9.917462 | 14 | 0 | 6 27.0 |
| | 10 | 9.750018 | 30 | 9.832570 | 45 | 0.167430 | 9.917448 | 15 | 50 | 7 31.5 |
| | 20 | 9.750048 | 31 | 9.832615 | 45 | 0.167385 | 9.917433 | 14 | 40 | 8 36.0 |
| | 30 | 9.750079 | 31 | 9.832660 | 45 | 0.167340 | 9.917419 | 14 | 30 | 9 40.5 |
| | 40 | 9.750110 | 31 | 9.832706 | 46 | 0.167294 | 9.917405 | 14 | 20 | |
| | 50 | 9.750141 | 31 | 9.832751 | 45 | 0.167249 | 9.917390 | 15 | 10 | |
| 14 | 0 | 9.750172 | 31 | 9.832796 | 45 | 0.167204 | 9.917376 | 14 | 0 | * |
| | 10 | 9.750203 | 31 | 9.832842 | 46 | 0.167158 | 9.917362 | 15 | 50 | |
| | 20 | 9.750234 | 31 | 9.832887 | 45 | 0.167113 | 9.917347 | 14 | 40 | 31 |
| | 30 | 9.750265 | 31 | 9.832932 | 45 | 0.167068 | 9.917333 | 14 | 30 | 1 3.1 |
| | 40 | 9.750296 | 31 | 9.832977 | 45 | 0.167023 | 9.917319 | 14 | 20 | 2 6.2 |
| | 50 | 9.750327 | 31 | 9.833023 | 46 | 0.166977 | 9.917304 | 15 | 10 | 3 9.3 |
| 15 | 0 | 9.750358 | 31 | 9.833068 | 45 | 0.166932 | 9.917290 | 14 | 0 | 4 12.4 |
| | 10 | 9.750389 | 31 | 9.833113 | 45 | 0.166887 | 9.917276 | 15 | 50 | 5 15.5 |
| | 20 | 9.750420 | 31 | 9.833158 | 45 | 0.166842 | 9.917261 | 14 | 40 | 6 18.6 |
| | 30 | 9.750451 | 31 | 9.833204 | 46 | 0.166796 | 9.917247 | 14 | 30 | 7 21.7 |
| | 40 | 9.750482 | 30 | 9.833249 | 45 | 0.166751 | 9.917233 | 14 | 20 | 8 24.8 |
| | 50 | 9.750513 | 31 | 9.833294 | 45 | 0.166706 | 9.917218 | 15 | 10 | 9 27.9 |
| 16 | 0 | 9.750543 | 31 | 9.833339 | 45 | 0.166661 | 9.917204 | 14 | 0 | |
| | 10 | 9.750574 | 31 | 9.833385 | 46 | 0.166615 | 9.917190 | 14 | 50 | 30 |
| | 20 | 9.750605 | 31 | 9.833430 | 45 | 0.166570 | 9.917175 | 15 | 40 | 1 3.0 |
| | 30 | 9.750636 | 31 | 9.833475 | 45 | 0.166525 | 9.917161 | 14 | 30 | 2 6.0 |
| | 40 | 9.750667 | 31 | 9.833520 | 45 | 0.166480 | 9.917147 | 14 | 20 | 3 9.0 |
| | 50 | 9.750698 | 31 | 9.833566 | 46 | 0.166434 | 9.917132 | 15 | 10 | 4 12.0 |
| 17 | 0 | 9.750729 | 31 | 9.833611 | 45 | 0.166389 | 9.917118 | 14 | 0 | 5 15.0 |
| | 10 | 9.750760 | 31 | 9.833656 | 45 | 0.166344 | 9.917104 | 14 | 50 | 6 18.0 |
| | 20 | 9.750791 | 30 | 9.833701 | 45 | 0.166299 | 9.917089 | 15 | 40 | 7 21.0 |
| | 30 | 9.750821 | 31 | 9.833747 | 46 | 0.166253 | 9.917075 | 14 | 30 | 8 24.0 |
| | 40 | 9.750852 | 31 | 9.833792 | 45 | 0.166208 | 9.917060 | 15 | 20 | 9 27.0 |
| | 50 | 9.750883 | 31 | 9.833837 | 45 | 0.166163 | 9.917046 | 14 | 10 | |
| 18 | 0 | 9.750914 | 31 | 9.833882 | 45 | 0.166118 | 9.917032 | 14 | 0 | * |
| | 10 | 9.750945 | 31 | 9.833927 | 45 | 0.166073 | 9.917017 | 15 | 50 | |
| | 20 | 9.750976 | 31 | 9.833973 | 46 | 0.166027 | 9.917003 | 14 | 40 | |
| | 30 | 9.751007 | 31 | 9.834018 | 45 | 0.165982 | 9.916989 | 14 | 30 | 15 |
| | 40 | 9.751037 | 30 | 9.834063 | 45 | 0.165937 | 9.916974 | 15 | 20 | 1 1.5 |
| | 50 | 9.751068 | 31 | 9.834108 | 45 | 0.165892 | 9.916960 | 14 | 10 | 2 3.0 |
| 19 | 0 | 9.751099 | 31 | 9.834154 | 46 | 0.165845 | 9.916945 | 14 | 0 | 3 4.5 |
| | 10 | 9.751130 | 31 | 9.834199 | 45 | 0.165800 | 9.916931 | 15 | 50 | 4 6.0 |
| | 20 | 9.751161 | 31 | 9.834244 | 45 | 0.165755 | 9.916917 | 14 | 40 | 5 7.5 |
| | 30 | 9.751192 | 31 | 9.834289 | 45 | 0.165711 | 9.916902 | 15 | 30 | 6 9.0 |
| | 40 | 9.751222 | 30 | 9.834334 | 45 | 0.165666 | 9.916888 | 14 | 20 | 7 10.5 |
| | 50 | 9.751253 | 31 | 9.834380 | 46 | 0.165620 | 9.916874 | 14 | 10 | 8 12.0 |
| 20 | 0 | 9.751284 | 31 | 9.834425 | 45 | 0.165575 | 9.916859 | 15 | 0 | 9 13.5 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d | " | ' |

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|------|----------|----------|----|----|----|
| 46 | 20 | 0 9.751284 | 31 | 9.834425 | 45 | 0.165575 | 9.916859 | 14 | 0 | 40 |
| 1 4.6 | 10 | 9.751315 | 31 | 9.834470 | 45 | 0.165530 | 9.916845 | 15 | 50 | |
| 2 9.2 | 20 | 9.751346 | 31 | 9.834515 | 45 | 0.165485 | 9.916830 | 14 | 40 | |
| 3 13.8 | 30 | 9.751377 | 30 | 9.834561 | 46 | 0.165439 | 9.916816 | 14 | 30 | |
| 4 18.4 | 40 | 9.751407 | 31 | 9.834606 | 45 | 0.165394 | 9.916802 | 15 | 20 | |
| 5 23.0 | 50 | 9.751438 | 31 | 9.834651 | 45 | 0.165349 | 9.916787 | 15 | 10 | |
| 6 27.6 | 0 | 9.751469 | 31 | 9.834696 | 45 | 0.165304 | 9.916773 | 14 | 0 | 39 |
| 7 32.2 | 10 | 9.751500 | 31 | 9.834741 | 45 | 0.165259 | 9.916759 | 15 | 50 | |
| 8 36.8 | 20 | 9.751531 | 31 | 9.834787 | 46 | 0.165213 | 9.916744 | 15 | 40 | |
| 9 41.4 | 30 | 9.751561 | 30 | 9.834832 | 45 | 0.165168 | 9.916730 | 14 | 30 | |
| | 40 | 9.751592 | 31 | 9.834877 | 45 | 0.165123 | 9.916715 | 15 | 20 | |
| | 50 | 9.751623 | 31 | 9.834922 | 45 | 0.165078 | 9.916701 | 14 | 10 | |
| 45 | 0 | 9.751654 | 31 | 9.834967 | 45 | 0.165033 | 9.916687 | 15 | 0 | 38 |
| 1 4.5 | 10 | 9.751685 | 30 | 9.835012 | 46 | 0.164988 | 9.916672 | 14 | 50 | |
| 2 9.0 | 20 | 9.751715 | 31 | 9.835058 | 45 | 0.164942 | 9.916658 | 15 | 40 | |
| 3 13.5 | 30 | 9.751746 | 31 | 9.835103 | 45 | 0.164897 | 9.916643 | 14 | 30 | |
| 4 18.0 | 40 | 9.751777 | 31 | 9.835148 | 45 | 0.164852 | 9.916629 | 15 | 20 | |
| 5 22.5 | 50 | 9.751808 | 31 | 9.835193 | 45 | 0.164807 | 9.916615 | 15 | 10 | |
| 6 27.0 | 0 | 9.751839 | 30 | 9.835238 | 46 | 0.164762 | 9.916600 | 14 | 0 | 37 |
| 7 31.5 | 10 | 9.751869 | 31 | 9.835284 | 45 | 0.164716 | 9.916586 | 15 | 50 | |
| 8 36.0 | 20 | 9.751900 | 31 | 9.835329 | 45 | 0.164671 | 9.916571 | 15 | 40 | |
| 9 40.5 | 30 | 9.751931 | 31 | 9.835374 | 45 | 0.164626 | 9.916557 | 14 | 30 | |
| | 40 | 9.751962 | 30 | 9.835419 | 45 | 0.164581 | 9.916543 | 15 | 20 | |
| | 50 | 9.751992 | 31 | 9.835464 | 45 | 0.164536 | 9.916528 | 14 | 10 | |
| * | 0 | 9.752023 | 31 | 9.835509 | 46 | 0.164491 | 9.916511 | 15 | 0 | 36 |
| 31 | 10 | 9.752054 | 31 | 9.835555 | 45 | 0.164445 | 9.916499 | 15 | 50 | |
| 1 3.1 | 20 | 9.752085 | 31 | 9.835600 | 45 | 0.164400 | 9.916485 | 14 | 40 | |
| 2 6.2 | 30 | 9.752115 | 30 | 9.835645 | 45 | 0.164355 | 9.916470 | 15 | 30 | |
| 3 9.3 | 40 | 9.752146 | 31 | 9.835690 | 45 | 0.164310 | 9.916456 | 14 | 20 | |
| 4 12.4 | 50 | 9.752177 | 31 | 9.835735 | 45 | 0.164265 | 9.916442 | 15 | 10 | |
| 5 15.5 | 0 | 9.752208 | 30 | 9.835780 | 46 | 0.164220 | 9.916427 | 14 | 0 | 35 |
| 6 18.6 | 10 | 9.752238 | 31 | 9.835826 | 45 | 0.164174 | 9.916413 | 15 | 50 | |
| 7 21.7 | 20 | 9.752269 | 31 | 9.835871 | 45 | 0.164129 | 9.916398 | 14 | 40 | |
| 8 24.8 | 30 | 9.752300 | 31 | 9.835916 | 45 | 0.164084 | 9.916384 | 15 | 30 | |
| 9 27.9 | 40 | 9.752330 | 30 | 9.835961 | 45 | 0.164039 | 9.916369 | 15 | 20 | |
| | 50 | 9.752361 | 31 | 9.836006 | 45 | 0.163994 | 9.916355 | 14 | 10 | |
| | 0 | 9.752392 | 31 | 9.836051 | 45 | 0.163949 | 9.916341 | 15 | 0 | 34 |
| 30 | 10 | 9.752423 | 31 | 9.836096 | 46 | 0.163904 | 9.916326 | 14 | 50 | |
| 1 3.0 | 20 | 9.752453 | 30 | 9.836142 | 45 | 0.163858 | 9.916312 | 15 | 40 | |
| 2 6.0 | 30 | 9.752484 | 31 | 9.836187 | 45 | 0.163813 | 9.916297 | 15 | 30 | |
| 3 9.0 | 40 | 9.752515 | 31 | 9.836232 | 45 | 0.163768 | 9.916283 | 14 | 20 | |
| 4 12.0 | 50 | 9.752545 | 30 | 9.836277 | 45 | 0.163723 | 9.916268 | 15 | 10 | |
| 5 15.0 | 0 | 9.752576 | 31 | 9.836322 | 45 | 0.163678 | 9.916254 | 14 | 0 | 33 |
| 6 18.0 | 10 | 9.752607 | 31 | 9.836367 | 45 | 0.163633 | 9.916240 | 15 | 50 | |
| 7 21.0 | 20 | 9.752637 | 30 | 9.836412 | 45 | 0.163588 | 9.916225 | 15 | 40 | |
| 8 24.0 | 30 | 9.752668 | 31 | 9.836458 | 46 | 0.163542 | 9.916211 | 14 | 30 | |
| 9 27.0 | 40 | 9.752699 | 31 | 9.836503 | 45 | 0.163497 | 9.916196 | 15 | 20 | |
| | 50 | 9.752729 | 30 | 9.836548 | 45 | 0.163452 | 9.916182 | 14 | 10 | |
| * | 0 | 9.752760 | 31 | 9.836593 | 45 | 0.163407 | 9.916167 | 15 | 0 | 32 |
| | 10 | 9.752791 | 31 | 9.836638 | 45 | 0.163362 | 9.916153 | 14 | 50 | |
| | 20 | 9.752822 | 31 | 9.836683 | 45 | 0.163317 | 9.916138 | 15 | 40 | |
| 14 | 30 | 9.752852 | 30 | 9.836728 | 45 | 0.163272 | 9.916124 | 14 | 30 | |
| 1 1.4 | 40 | 9.752883 | 31 | 9.836773 | 45 | 0.163227 | 9.916109 | 15 | 20 | |
| 2 2.8 | 50 | 9.752914 | 31 | 9.836819 | 46 | 0.163181 | 9.916095 | 14 | 10 | |
| 3 4.2 | 0 | 9.752944 | 30 | 9.836864 | 45 | 0.163136 | 9.916081 | 14 | 0 | 31 |
| 4 5.6 | 10 | 9.752975 | 31 | 9.836909 | 45 | 0.163091 | 9.916066 | 15 | 50 | |
| 5 7.0 | 20 | 9.753005 | 30 | 9.836954 | 45 | 0.163046 | 9.916052 | 14 | 40 | |
| 6 8.4 | 30 | 9.753036 | 31 | 9.836999 | 45 | 0.163001 | 9.916037 | 15 | 30 | |
| 7 9.8 | 40 | 9.753067 | 31 | 9.837044 | 45 | 0.162956 | 9.916023 | 14 | 20 | |
| 8 11.2 | 50 | 9.753097 | 30 | 9.837089 | 45 | 0.162911 | 9.916008 | 15 | 10 | |
| 9 12.6 | 0 | 9.753128 | 31 | 9.837134 | 45 | 0.162866 | 9.915994 | 14 | 0 | 30 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0 | 9.753128 | 31 | 9.837134 | 45 | 0.162866 | 9.915994 | 15 | 0 | 30 |
| | 10 | 9.753159 | 30 | 9.837179 | 46 | 0.162821 | 9.915979 | 14 | 50 | |
| | 20 | 9.753189 | 30 | 9.837225 | 45 | 0.162775 | 9.915965 | 14 | 40 | |
| | 30 | 9.753220 | 31 | 9.837270 | 45 | 0.162730 | 9.915950 | 15 | 30 | |
| | 40 | 9.753251 | 30 | 9.837315 | 45 | 0.162685 | 9.915936 | 14 | 20 | |
| | 50 | 9.753281 | 31 | 9.837360 | 45 | 0.162640 | 9.915921 | 15 | 10 | |
| 31 | 0 | 9.753312 | 30 | 9.837405 | 45 | 0.162595 | 9.915907 | 14 | 0 | 29 |
| | 10 | 9.753342 | 31 | 9.837450 | 45 | 0.162550 | 9.915892 | 15 | 50 | |
| | 20 | 9.753373 | 30 | 9.837495 | 45 | 0.162505 | 9.915878 | 14 | 40 | |
| | 30 | 9.753404 | 31 | 9.837540 | 45 | 0.162460 | 9.915863 | 15 | 30 | |
| | 40 | 9.753434 | 30 | 9.837585 | 45 | 0.162415 | 9.915849 | 14 | 20 | |
| | 50 | 9.753465 | 31 | 9.837630 | 45 | 0.162370 | 9.915834 | 15 | 10 | |
| 32 | 0 | 9.753495 | 30 | 9.837675 | 45 | 0.162325 | 9.915820 | 14 | 0 | 28 |
| | 10 | 9.753526 | 31 | 9.837721 | 46 | 0.162279 | 9.915805 | 15 | 50 | |
| | 20 | 9.753557 | 30 | 9.837766 | 45 | 0.162234 | 9.915791 | 14 | 40 | |
| | 30 | 9.753587 | 31 | 9.837811 | 45 | 0.162189 | 9.915776 | 15 | 30 | |
| | 40 | 9.753618 | 30 | 9.837856 | 45 | 0.162144 | 9.915762 | 14 | 20 | |
| | 50 | 9.753648 | 31 | 9.837901 | 45 | 0.162099 | 9.915747 | 15 | 10 | |
| 33 | 0 | 9.753679 | 30 | 9.837946 | 45 | 0.162054 | 9.915733 | 14 | 0 | 27 |
| | 10 | 9.753710 | 31 | 9.837991 | 45 | 0.162009 | 9.915718 | 15 | 50 | |
| | 20 | 9.753740 | 30 | 9.838036 | 45 | 0.161964 | 9.915704 | 14 | 40 | |
| | 30 | 9.753771 | 31 | 9.838081 | 45 | 0.161919 | 9.915689 | 15 | 30 | |
| | 40 | 9.753801 | 30 | 9.838126 | 45 | 0.161874 | 9.915675 | 14 | 20 | |
| | 50 | 9.753832 | 31 | 9.838171 | 45 | 0.161829 | 9.915660 | 15 | 10 | |
| 34 | 0 | 9.753862 | 30 | 9.838216 | 45 | 0.161784 | 9.915646 | 14 | 0 | 26 |
| | 10 | 9.753893 | 31 | 9.838261 | 45 | 0.161739 | 9.915631 | 15 | 50 | |
| | 20 | 9.753923 | 30 | 9.838307 | 46 | 0.161693 | 9.915617 | 14 | 40 | |
| | 30 | 9.753954 | 31 | 9.838352 | 45 | 0.161648 | 9.915602 | 15 | 30 | |
| | 40 | 9.753985 | 30 | 9.838397 | 45 | 0.161603 | 9.915588 | 14 | 20 | |
| | 50 | 9.754015 | 31 | 9.838442 | 45 | 0.161558 | 9.915573 | 15 | 10 | |
| 35 | 0 | 9.754046 | 30 | 9.838487 | 45 | 0.161513 | 9.915559 | 14 | 0 | 25 |
| | 10 | 9.754076 | 31 | 9.838532 | 45 | 0.161468 | 9.915544 | 15 | 50 | |
| | 20 | 9.754107 | 30 | 9.838577 | 45 | 0.161423 | 9.915530 | 14 | 40 | |
| | 30 | 9.754137 | 31 | 9.838622 | 45 | 0.161378 | 9.915515 | 15 | 30 | |
| | 40 | 9.754168 | 30 | 9.838667 | 45 | 0.161333 | 9.915501 | 14 | 20 | |
| | 50 | 9.754198 | 31 | 9.838712 | 45 | 0.161288 | 9.915486 | 15 | 10 | |
| 36 | 0 | 9.754229 | 30 | 9.838757 | 45 | 0.161243 | 9.915472 | 14 | 0 | 24 |
| | 10 | 9.754259 | 31 | 9.838802 | 45 | 0.161198 | 9.915457 | 15 | 50 | |
| | 20 | 9.754290 | 30 | 9.838847 | 45 | 0.161153 | 9.915443 | 14 | 40 | |
| | 30 | 9.754320 | 31 | 9.838892 | 45 | 0.161108 | 9.915428 | 15 | 30 | |
| | 40 | 9.754351 | 30 | 9.838937 | 45 | 0.161063 | 9.915414 | 14 | 20 | |
| | 50 | 9.754381 | 31 | 9.838982 | 45 | 0.161018 | 9.915399 | 15 | 10 | |
| 37 | 0 | 9.754412 | 30 | 9.839027 | 45 | 0.160973 | 9.915385 | 14 | 0 | 23 |
| | 10 | 9.754442 | 31 | 9.839072 | 45 | 0.160928 | 9.915370 | 15 | 50 | |
| | 20 | 9.754473 | 30 | 9.839117 | 45 | 0.160883 | 9.915356 | 14 | 40 | |
| | 30 | 9.754503 | 31 | 9.839162 | 45 | 0.160838 | 9.915341 | 15 | 30 | |
| | 40 | 9.754534 | 30 | 9.839207 | 45 | 0.160793 | 9.915326 | 14 | 20 | |
| | 50 | 9.754564 | 31 | 9.839252 | 45 | 0.160748 | 9.915312 | 15 | 10 | |
| 38 | 0 | 9.754595 | 30 | 9.839297 | 45 | 0.160703 | 9.915297 | 14 | 0 | 22 |
| | 10 | 9.754625 | 31 | 9.839343 | 46 | 0.160657 | 9.915283 | 15 | 50 | |
| | 20 | 9.754656 | 30 | 9.839388 | 45 | 0.160612 | 9.915268 | 14 | 40 | |
| | 30 | 9.754686 | 31 | 9.839433 | 45 | 0.160567 | 9.915254 | 15 | 30 | |
| | 40 | 9.754717 | 30 | 9.839478 | 45 | 0.160522 | 9.915239 | 14 | 20 | |
| | 50 | 9.754747 | 31 | 9.839523 | 45 | 0.160477 | 9.915225 | 15 | 10 | |
| 39 | 0 | 9.754778 | 30 | 9.839568 | 45 | 0.160432 | 9.915210 | 14 | 0 | 21 |
| | 10 | 9.754808 | 31 | 9.839613 | 45 | 0.160387 | 9.915196 | 15 | 50 | |
| | 20 | 9.754839 | 30 | 9.839658 | 45 | 0.160342 | 9.915181 | 14 | 40 | |
| | 30 | 9.754869 | 31 | 9.839703 | 45 | 0.160297 | 9.915166 | 15 | 30 | |
| | 40 | 9.754900 | 30 | 9.839748 | 45 | 0.160252 | 9.915152 | 14 | 20 | |
| | 50 | 9.754930 | 31 | 9.839793 | 45 | 0.160207 | 9.915137 | 15 | 10 | |
| 40 | 0 | 9.754960 | 30 | 9.839838 | 45 | 0.160162 | 9.915123 | 14 | 0 | 20 |

46

1 4.6

2 9.2

3 13.8

4 18.4

5 23.0

6 27.6

7 32.2

8 36.8

9 41.4

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 45 | 0 | 9.754960 | 31 | 9.839838 | 45 | 0.160162 | 9.915123 | 15 | 0 | 20 |
| 1 4.5 | 10 | 9.754991 | 30 | 9.839883 | 45 | 0.160117 | 9.915108 | 14 | 50 | |
| 2 9.0 | 20 | 9.755021 | 30 | 9.839928 | 45 | 0.160072 | 9.915094 | 15 | 40 | |
| 3 13.5 | 30 | 9.755052 | 31 | 9.839973 | 45 | 0.160027 | 9.915079 | 15 | 30 | |
| 4 18.0 | 40 | 9.755082 | 30 | 9.840018 | 45 | 0.159982 | 9.915064 | 15 | 20 | |
| 5 22.5 | 50 | 9.755113 | 31 | 9.840063 | 45 | 0.159937 | 9.915050 | 14 | 10 | |
| 6 27.0 | 0 | 9.755143 | 30 | 9.840108 | 45 | 0.159892 | 9.915035 | 15 | 0 | 19 |
| 7 31.5 | 10 | 9.755173 | 31 | 9.840153 | 45 | 0.159847 | 9.915021 | 14 | 50 | |
| 8 36.0 | 20 | 9.755204 | 30 | 9.840198 | 45 | 0.159802 | 9.915006 | 15 | 40 | |
| 9 40.5 | 30 | 9.755234 | 31 | 9.840243 | 45 | 0.159757 | 9.914992 | 14 | 30 | |
| | 40 | 9.755265 | 30 | 9.840288 | 45 | 0.159712 | 9.914977 | 15 | 20 | |
| | 50 | 9.755295 | 31 | 9.840333 | 45 | 0.159667 | 9.914962 | 15 | 10 | |
| | 0 | 9.755326 | 30 | 9.840378 | 45 | 0.159622 | 9.914948 | 14 | 0 | 18 |
| 1 4.4 | 10 | 9.755356 | 31 | 9.840423 | 45 | 0.159577 | 9.914933 | 15 | 50 | |
| 2 8.8 | 20 | 9.755386 | 30 | 9.840468 | 45 | 0.159532 | 9.914919 | 14 | 40 | |
| 3 13.2 | 30 | 9.755417 | 31 | 9.840513 | 45 | 0.159487 | 9.914904 | 15 | 30 | |
| 4 17.6 | 40 | 9.755447 | 30 | 9.840558 | 45 | 0.159442 | 9.914890 | 14 | 20 | |
| 5 22.0 | 50 | 9.755478 | 31 | 9.840603 | 45 | 0.159397 | 9.914875 | 15 | 10 | |
| 6 26.4 | 0 | 9.755508 | 30 | 9.840648 | 45 | 0.159352 | 9.914860 | 15 | 0 | 17 |
| 7 30.8 | 10 | 9.755538 | 31 | 9.840693 | 45 | 0.159307 | 9.914846 | 14 | 50 | |
| 8 35.2 | 20 | 9.755569 | 30 | 9.840737 | 44 | 0.159263 | 9.914831 | 15 | 40 | |
| 9 39.6 | 30 | 9.755599 | 31 | 9.840782 | 45 | 0.159218 | 9.914817 | 14 | 30 | |
| * | 40 | 9.755629 | 30 | 9.840827 | 45 | 0.159173 | 9.914802 | 15 | 20 | |
| | 50 | 9.755660 | 31 | 9.840872 | 45 | 0.159128 | 9.914787 | 15 | 10 | |
| | 0 | 9.755690 | 30 | 9.840917 | 45 | 0.159083 | 9.914773 | 14 | 0 | 16 |
| 1 3.1 | 10 | 9.755721 | 31 | 9.840962 | 45 | 0.159038 | 9.914758 | 15 | 50 | |
| 2 6.2 | 20 | 9.755751 | 30 | 9.841007 | 45 | 0.158993 | 9.914744 | 14 | 40 | |
| 3 9.3 | 30 | 9.755781 | 31 | 9.841052 | 45 | 0.158948 | 9.914729 | 15 | 30 | |
| 4 12.4 | 40 | 9.755812 | 30 | 9.841097 | 45 | 0.158903 | 9.914714 | 15 | 20 | |
| 5 15.5 | 50 | 9.755842 | 31 | 9.841142 | 45 | 0.158858 | 9.914700 | 14 | 10 | |
| 6 18.6 | 0 | 9.755872 | 30 | 9.841187 | 45 | 0.158813 | 9.914685 | 15 | 0 | 15 |
| 7 21.7 | 10 | 9.755903 | 31 | 9.841232 | 45 | 0.158768 | 9.914671 | 14 | 50 | |
| 8 24.8 | 20 | 9.755933 | 30 | 9.841277 | 45 | 0.158723 | 9.914656 | 15 | 40 | |
| 9 27.9 | 30 | 9.755963 | 31 | 9.841322 | 45 | 0.158678 | 9.914641 | 15 | 30 | |
| | 40 | 9.755994 | 30 | 9.841367 | 45 | 0.158633 | 9.914627 | 14 | 20 | |
| | 50 | 9.756024 | 31 | 9.841412 | 45 | 0.158588 | 9.914612 | 15 | 10 | |
| | 0 | 9.756054 | 30 | 9.841457 | 45 | 0.158543 | 9.914598 | 14 | 0 | 14 |
| 1 3.0 | 10 | 9.756085 | 31 | 9.841502 | 45 | 0.158498 | 9.914583 | 15 | 50 | |
| 2 6.0 | 20 | 9.756115 | 30 | 9.841547 | 45 | 0.158453 | 9.914568 | 15 | 40 | |
| 3 9.0 | 30 | 9.756145 | 31 | 9.841592 | 45 | 0.158408 | 9.914554 | 14 | 30 | |
| 4 12.0 | 40 | 9.756176 | 30 | 9.841637 | 45 | 0.158363 | 9.914539 | 15 | 20 | |
| 5 15.0 | 50 | 9.756206 | 31 | 9.841682 | 45 | 0.158318 | 9.914524 | 15 | 10 | |
| 6 18.0 | 0 | 9.756236 | 30 | 9.841727 | 45 | 0.158273 | 9.914510 | 14 | 0 | 13 |
| 7 21.0 | 10 | 9.756267 | 31 | 9.841771 | 44 | 0.158229 | 9.914495 | 15 | 50 | |
| 8 24.0 | 20 | 9.756297 | 30 | 9.841816 | 45 | 0.158184 | 9.914481 | 14 | 40 | |
| 9 27.0 | 30 | 9.756327 | 31 | 9.841861 | 45 | 0.158139 | 9.914466 | 15 | 30 | |
| * | 40 | 9.756358 | 30 | 9.841906 | 45 | 0.158094 | 9.914451 | 15 | 20 | |
| | 50 | 9.756388 | 31 | 9.841951 | 45 | 0.158049 | 9.914437 | 14 | 10 | |
| | 0 | 9.756418 | 30 | 9.841996 | 45 | 0.158004 | 9.914422 | 15 | 0 | 12 |
| 1 4 | 10 | 9.756448 | 31 | 9.842041 | 45 | 0.157959 | 9.914407 | 15 | 50 | |
| 2 2.8 | 20 | 9.756479 | 30 | 9.842086 | 45 | 0.157914 | 9.914393 | 14 | 40 | |
| 3 4.2 | 30 | 9.756509 | 31 | 9.842131 | 45 | 0.157869 | 9.914378 | 15 | 30 | |
| 4 5.6 | 40 | 9.756539 | 30 | 9.842176 | 45 | 0.157824 | 9.914364 | 14 | 20 | |
| 5 7.0 | 50 | 9.756570 | 31 | 9.842221 | 45 | 0.157779 | 9.914350 | 15 | 10 | |
| 6 8.4 | 0 | 9.756600 | 30 | 9.842266 | 45 | 0.157734 | 9.914335 | 14 | 0 | 11 |
| 7 9.8 | 10 | 9.756630 | 31 | 9.842311 | 45 | 0.157689 | 9.914321 | 15 | 50 | |
| 8 11.2 | 20 | 9.756660 | 30 | 9.842355 | 44 | 0.157645 | 9.914305 | 15 | 40 | |
| 9 12.6 | 30 | 9.756691 | 31 | 9.842400 | 45 | 0.157600 | 9.914290 | 15 | 30 | |
| | 40 | 9.756721 | 30 | 9.842444 | 45 | 0.157555 | 9.914276 | 14 | 20 | |
| | 50 | 9.756751 | 31 | 9.842489 | 45 | 0.157510 | 9.914261 | 15 | 10 | |
| | 0 | 9.756782 | 30 | 9.842533 | 45 | 0.157465 | 9.914246 | 15 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.756782 | 30 | 9.842535 | 45 | 0.157465 | 9.914246 | 14 | 0 | 10 |
| | 10 | 9.756812 | 30 | 9.842580 | 45 | 0.157420 | 9.914232 | 15 | 50 | |
| | 20 | 9.756842 | 30 | 9.842625 | 45 | 0.157375 | 9.914217 | 15 | 40 | |
| | 30 | 9.756872 | 30 | 9.842670 | 45 | 0.157330 | 9.914202 | 15 | 30 | |
| | 40 | 9.756903 | 30 | 9.842715 | 45 | 0.157285 | 9.914188 | 15 | 20 | |
| | 50 | 9.756933 | 30 | 9.842760 | 45 | 0.157240 | 9.914173 | 15 | 10 | |
| 51 | 0 | 9.756963 | 30 | 9.842805 | 45 | 0.157195 | 9.914158 | 15 | 0 | 9 |
| | 10 | 9.756993 | 30 | 9.842849 | 44 | 0.157151 | 9.914144 | 15 | 50 | |
| | 20 | 9.757023 | 30 | 9.842894 | 45 | 0.157106 | 9.914129 | 15 | 40 | |
| | 30 | 9.757054 | 31 | 9.842939 | 45 | 0.157061 | 9.914114 | 15 | 30 | |
| | 40 | 9.757084 | 30 | 9.842984 | 45 | 0.157016 | 9.914100 | 14 | 20 | |
| | 50 | 9.757114 | 30 | 9.843029 | 45 | 0.156971 | 9.914085 | 15 | 10 | |
| 52 | 0 | 9.757144 | 30 | 9.843074 | 45 | 0.156926 | 9.914070 | 15 | 0 | 8 |
| | 10 | 9.757175 | 31 | 9.843119 | 45 | 0.156881 | 9.914056 | 14 | 50 | |
| | 20 | 9.757205 | 30 | 9.843164 | 45 | 0.156836 | 9.914041 | 15 | 40 | |
| | 30 | 9.757235 | 30 | 9.843209 | 45 | 0.156791 | 9.914026 | 15 | 30 | |
| | 40 | 9.757265 | 30 | 9.843253 | 45 | 0.156747 | 9.914012 | 14 | 20 | |
| | 50 | 9.757295 | 30 | 9.843298 | 45 | 0.156702 | 9.913997 | 15 | 10 | |
| 53 | 0 | 9.757326 | 31 | 9.843343 | 45 | 0.156657 | 9.913982 | 15 | 0 | 7 |
| | 10 | 9.757356 | 30 | 9.843388 | 45 | 0.156612 | 9.913968 | 14 | 50 | |
| | 20 | 9.757386 | 30 | 9.843433 | 45 | 0.156567 | 9.913953 | 15 | 40 | |
| | 30 | 9.757416 | 30 | 9.843478 | 45 | 0.156522 | 9.913938 | 15 | 30 | |
| | 40 | 9.757446 | 30 | 9.843523 | 45 | 0.156477 | 9.913924 | 14 | 20 | |
| | 50 | 9.757477 | 31 | 9.843568 | 45 | 0.156432 | 9.913909 | 15 | 10 | |
| 54 | 0 | 9.757507 | 30 | 9.843612 | 44 | 0.156388 | 9.913894 | 15 | 0 | 6 |
| | 10 | 9.757537 | 30 | 9.843657 | 45 | 0.156343 | 9.913880 | 14 | 50 | |
| | 20 | 9.757567 | 30 | 9.843702 | 45 | 0.156298 | 9.913865 | 15 | 40 | |
| | 30 | 9.757597 | 30 | 9.843747 | 45 | 0.156253 | 9.913850 | 15 | 30 | |
| | 40 | 9.757627 | 30 | 9.843792 | 45 | 0.156208 | 9.913836 | 14 | 20 | |
| | 50 | 9.757658 | 31 | 9.843837 | 45 | 0.156163 | 9.913821 | 15 | 10 | |
| 55 | 0 | 9.757688 | 30 | 9.843882 | 45 | 0.156118 | 9.913806 | 15 | 0 | 5 |
| | 10 | 9.757718 | 30 | 9.843927 | 45 | 0.156073 | 9.913791 | 15 | 50 | |
| | 20 | 9.757748 | 30 | 9.843971 | 44 | 0.156029 | 9.913777 | 14 | 40 | |
| | 30 | 9.757778 | 30 | 9.844016 | 45 | 0.155984 | 9.913762 | 15 | 30 | |
| | 40 | 9.757808 | 30 | 9.844061 | 45 | 0.155939 | 9.913747 | 15 | 20 | |
| | 50 | 9.757839 | 31 | 9.844106 | 45 | 0.155894 | 9.913733 | 14 | 10 | |
| 56 | 0 | 9.757869 | 30 | 9.844151 | 45 | 0.155849 | 9.913718 | 15 | 0 | 4 |
| | 10 | 9.757899 | 30 | 9.844196 | 45 | 0.155804 | 9.913703 | 15 | 50 | |
| | 20 | 9.757929 | 30 | 9.844241 | 45 | 0.155759 | 9.913688 | 15 | 40 | |
| | 30 | 9.757959 | 30 | 9.844285 | 44 | 0.155715 | 9.913674 | 14 | 30 | |
| | 40 | 9.757989 | 30 | 9.844330 | 45 | 0.155670 | 9.913659 | 15 | 20 | |
| | 50 | 9.758019 | 30 | 9.844375 | 45 | 0.155625 | 9.913644 | 15 | 10 | |
| 57 | 0 | 9.758050 | 31 | 9.844420 | 45 | 0.155580 | 9.913630 | 14 | 0 | 3 |
| | 10 | 9.758080 | 30 | 9.844465 | 45 | 0.155535 | 9.913615 | 15 | 50 | |
| | 20 | 9.758110 | 30 | 9.844510 | 45 | 0.155490 | 9.913600 | 15 | 40 | |
| | 30 | 9.758140 | 30 | 9.844554 | 44 | 0.155446 | 9.913585 | 15 | 30 | |
| | 40 | 9.758170 | 30 | 9.844599 | 45 | 0.155401 | 9.913571 | 14 | 20 | |
| | 50 | 9.758200 | 30 | 9.844644 | 45 | 0.155356 | 9.913556 | 15 | 10 | |
| 58 | 0 | 9.758230 | 30 | 9.844689 | 45 | 0.155311 | 9.913541 | 15 | 0 | 2 |
| | 10 | 9.758260 | 30 | 9.844734 | 45 | 0.155266 | 9.913527 | 14 | 50 | |
| | 20 | 9.758290 | 30 | 9.844779 | 45 | 0.155221 | 9.913512 | 15 | 40 | |
| | 30 | 9.758321 | 31 | 9.844823 | 44 | 0.155177 | 9.913497 | 15 | 30 | |
| | 40 | 9.758351 | 30 | 9.844868 | 45 | 0.155132 | 9.913482 | 15 | 20 | |
| | 50 | 9.758381 | 30 | 9.844913 | 45 | 0.155087 | 9.913468 | 14 | 10 | |
| 59 | 0 | 9.758411 | 30 | 9.844958 | 45 | 0.155042 | 9.913453 | 15 | 0 | 1 |
| | 10 | 9.758441 | 30 | 9.845003 | 45 | 0.154997 | 9.913438 | 15 | 50 | |
| | 20 | 9.758471 | 30 | 9.845048 | 45 | 0.154952 | 9.913423 | 15 | 40 | |
| | 30 | 9.758501 | 30 | 9.845092 | 44 | 0.154908 | 9.913409 | 14 | 30 | |
| | 40 | 9.758531 | 30 | 9.845137 | 45 | 0.154863 | 9.913394 | 15 | 20 | |
| | 50 | 9.758561 | 30 | 9.845182 | 45 | 0.154818 | 9.913379 | 15 | 10 | |
| 60 | 0 | 9.758591 | 30 | 9.845227 | 45 | 0.154773 | 9.913365 | 14 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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1 4.5
2 9.0
3 13.5
4 18.0
5 22.5
6 27.0
7 31.5
8 36.0
9 40.5

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2 8.8
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4 17.6
5 22.0
6 26.4
7 30.8
8 35.2
9 39.6

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1 3.1
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| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| | 0 | 9.758591 | 30 | 9.845227 | 45 | 0.154773 | 9.913365 | 15 | 0 | 60 |
| 45 | 10 | 9.758621 | 30 | 9.845272 | 44 | 0.154728 | 9.913350 | 15 | 50 | |
| 1 4.5 | 20 | 9.758651 | 30 | 9.845316 | 45 | 0.154684 | 9.913335 | 15 | 40 | |
| 2 9.0 | 30 | 9.758681 | 30 | 9.845361 | 45 | 0.154639 | 9.913320 | 15 | 30 | |
| 3 13.5 | 40 | 9.758712 | 30 | 9.845406 | 45 | 0.154594 | 9.913306 | 14 | 20 | |
| 4 18.0 | 50 | 9.758742 | 30 | 9.845451 | 45 | 0.154549 | 9.913291 | 15 | 10 | |
| 5 22.5 | 0 | 9.758772 | 30 | 9.845496 | 45 | 0.154504 | 9.913276 | 15 | 0 | 59 |
| 6 27.0 | 10 | 9.758802 | 30 | 9.845540 | 44 | 0.154460 | 9.913261 | 15 | 50 | |
| 7 31.5 | 20 | 9.758832 | 30 | 9.845585 | 45 | 0.154415 | 9.913247 | 14 | 40 | |
| 8 36.0 | 30 | 9.758862 | 30 | 9.845630 | 45 | 0.154370 | 9.913232 | 15 | 30 | |
| 9 40.5 | 40 | 9.758892 | 30 | 9.845675 | 45 | 0.154325 | 9.913217 | 15 | 20 | |
| | 50 | 9.758922 | 30 | 9.845720 | 45 | 0.154280 | 9.913202 | 15 | 10 | |
| | 0 | 9.758952 | 30 | 9.845764 | 44 | 0.154236 | 9.913187 | 15 | 0 | 58 |
| 44 | 10 | 9.758982 | 30 | 9.845809 | 45 | 0.154191 | 9.913173 | 14 | 50 | |
| 1 4.4 | 20 | 9.759012 | 30 | 9.845854 | 45 | 0.154146 | 9.913158 | 15 | 40 | |
| 2 8.8 | 30 | 9.759042 | 30 | 9.845899 | 45 | 0.154101 | 9.913143 | 15 | 30 | |
| 3 13.2 | 40 | 9.759072 | 30 | 9.845944 | 45 | 0.154056 | 9.913128 | 15 | 20 | |
| 4 17.6 | 50 | 9.759102 | 30 | 9.845988 | 44 | 0.154012 | 9.913114 | 14 | 10 | |
| 5 22.0 | 0 | 9.759132 | 30 | 9.846033 | 45 | 0.153967 | 9.913099 | 15 | 0 | 57 |
| 6 26.4 | 10 | 9.759162 | 30 | 9.846078 | 45 | 0.153922 | 9.913084 | 15 | 50 | |
| 7 30.8 | 20 | 9.759192 | 30 | 9.846123 | 45 | 0.153877 | 9.913069 | 15 | 40 | |
| 8 35.2 | 30 | 9.759222 | 30 | 9.846168 | 45 | 0.153832 | 9.913055 | 14 | 30 | |
| 9 39.6 | 40 | 9.759252 | 30 | 9.846212 | 44 | 0.153788 | 9.913040 | 15 | 20 | |
| * | 50 | 9.759282 | 30 | 9.846257 | 45 | 0.153743 | 9.913025 | 15 | 10 | |
| | 0 | 9.759312 | 30 | 9.846302 | 45 | 0.153698 | 9.913010 | 15 | 0 | 56 |
| | 10 | 9.759342 | 30 | 9.846347 | 45 | 0.153653 | 9.912995 | 15 | 50 | |
| 31 | 20 | 9.759372 | 30 | 9.846391 | 44 | 0.153609 | 9.912981 | 14 | 40 | |
| 1 3.1 | 30 | 9.759402 | 30 | 9.846436 | 45 | 0.153564 | 9.912966 | 15 | 30 | |
| 2 6.2 | 40 | 9.759432 | 30 | 9.846481 | 45 | 0.153519 | 9.912951 | 15 | 20 | |
| 3 9.3 | 50 | 9.759462 | 30 | 9.846526 | 45 | 0.153474 | 9.912936 | 15 | 10 | |
| 4 12.4 | 0 | 9.759492 | 30 | 9.846570 | 44 | 0.153430 | 9.912922 | 14 | 0 | 55 |
| 5 15.5 | 10 | 9.759522 | 30 | 9.846615 | 45 | 0.153385 | 9.912907 | 15 | 50 | |
| 6 18.6 | 20 | 9.759552 | 30 | 9.846660 | 45 | 0.153340 | 9.912892 | 15 | 40 | |
| 7 21.7 | 30 | 9.759582 | 30 | 9.846705 | 45 | 0.153295 | 9.912877 | 15 | 30 | |
| 8 24.8 | 40 | 9.759612 | 30 | 9.846750 | 45 | 0.153250 | 9.912862 | 15 | 20 | |
| 9 27.9 | 50 | 9.759642 | 30 | 9.846794 | 44 | 0.153206 | 9.912848 | 14 | 10 | |
| | 0 | 9.759672 | 30 | 9.846839 | 45 | 0.153161 | 9.912833 | 15 | 0 | 54 |
| 30 | 10 | 9.759702 | 30 | 9.846884 | 45 | 0.153116 | 9.912818 | 15 | 50 | |
| 1 3.0 | 20 | 9.759732 | 30 | 9.846929 | 45 | 0.153071 | 9.912803 | 15 | 40 | |
| 2 6.0 | 30 | 9.759762 | 30 | 9.846973 | 44 | 0.153027 | 9.912788 | 15 | 30 | |
| 3 9.0 | 40 | 9.759792 | 30 | 9.847018 | 45 | 0.152982 | 9.912774 | 14 | 20 | |
| 4 12.0 | 50 | 9.759822 | 30 | 9.847063 | 45 | 0.152937 | 9.912759 | 15 | 10 | |
| 5 15.0 | 0 | 9.759852 | 30 | 9.847108 | 45 | 0.152892 | 9.912744 | 15 | 0 | 53 |
| 6 18.0 | 10 | 9.759881 | 29 | 9.847152 | 44 | 0.152848 | 9.912729 | 15 | 50 | |
| 7 21.0 | 20 | 9.759911 | 30 | 9.847197 | 45 | 0.152803 | 9.912714 | 15 | 40 | |
| 8 24.0 | 30 | 9.759941 | 30 | 9.847242 | 45 | 0.152758 | 9.912700 | 14 | 30 | |
| 9 27.0 | 40 | 9.759971 | 30 | 9.847287 | 45 | 0.152713 | 9.912685 | 15 | 20 | |
| * | 50 | 9.760001 | 30 | 9.847331 | 44 | 0.152669 | 9.912670 | 15 | 10 | |
| | 0 | 9.760031 | 30 | 9.847376 | 45 | 0.152624 | 9.912655 | 15 | 0 | 52 |
| | 10 | 9.760061 | 30 | 9.847421 | 45 | 0.152579 | 9.912640 | 15 | 50 | |
| 14 | 20 | 9.760091 | 30 | 9.847465 | 44 | 0.152535 | 9.912625 | 15 | 40 | |
| 1 1.4 | 30 | 9.760121 | 30 | 9.847510 | 45 | 0.152490 | 9.912611 | 14 | 30 | |
| 2 2.8 | 40 | 9.760151 | 30 | 9.847555 | 45 | 0.152445 | 9.912596 | 15 | 20 | |
| 3 4.2 | 50 | 9.760181 | 30 | 9.847600 | 45 | 0.152400 | 9.912581 | 15 | 10 | |
| 4 5.6 | 0 | 9.760211 | 29 | 9.847644 | 44 | 0.152356 | 9.912566 | 15 | 0 | 51 |
| 5 7.0 | 10 | 9.760240 | 30 | 9.847689 | 45 | 0.152311 | 9.912551 | 15 | 50 | |
| 6 8.4 | 20 | 9.760270 | 30 | 9.847734 | 45 | 0.152266 | 9.912537 | 14 | 40 | |
| 7 9.8 | 30 | 9.760300 | 30 | 9.847779 | 45 | 0.152221 | 9.912522 | 15 | 30 | |
| 8 11.2 | 40 | 9.760330 | 30 | 9.847823 | 44 | 0.152177 | 9.912507 | 15 | 20 | |
| 9 12.6 | 50 | 9.760360 | 30 | 9.847868 | 45 | 0.152132 | 9.912492 | 15 | 10 | |
| | 0 | 9.760390 | 30 | 9.847913 | 45 | 0.152087 | 9.912477 | 15 | 0 | 50 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|---------|
| 10 | 0 | 9.760390 | 30 | 9.847913 | 44 | 0.152087 | 9.912477 | 15 | 0 | 50 |
| | 10 | 9.760420 | 30 | 9.847957 | 45 | 0.152043 | 9.912462 | 14 | 50 | 45 |
| | 20 | 9.760450 | 30 | 9.848002 | 45 | 0.151998 | 9.912448 | 15 | 40 | 1. 4.5 |
| | 30 | 9.760480 | 30 | 9.848047 | 45 | 0.151953 | 9.912433 | 15 | 30 | 2. 9.0 |
| | 40 | 9.760509 | 29 | 9.848092 | 45 | 0.151908 | 9.912418 | 15 | 20 | 3. 13.5 |
| | 50 | 9.760539 | 30 | 9.848136 | 44 | 0.151864 | 9.912403 | 15 | 10 | 4. 18.0 |
| 11 | 0 | 9.760569 | 30 | 9.848181 | 45 | 0.151819 | 9.912388 | 15 | 0 | 5. 22.5 |
| | 10 | 9.760599 | 30 | 9.848226 | 45 | 0.151774 | 9.912373 | 15 | 50 | 6. 27.0 |
| | 20 | 9.760629 | 30 | 9.848270 | 44 | 0.151730 | 9.912358 | 15 | 40 | 7. 31.5 |
| | 30 | 9.760659 | 30 | 9.848315 | 45 | 0.151685 | 9.912344 | 14 | 30 | 8. 36.0 |
| | 40 | 9.760689 | 30 | 9.848360 | 45 | 0.151640 | 9.912329 | 15 | 20 | 9. 40.5 |
| | 50 | 9.760718 | 29 | 9.848405 | 45 | 0.151595 | 9.912314 | 15 | 10 | |
| 12 | 0 | 9.760748 | 30 | 9.848449 | 44 | 0.151551 | 9.912299 | 15 | 0 | 48 |
| | 10 | 9.760778 | 30 | 9.848494 | 45 | 0.151506 | 9.912284 | 15 | 50 | 1. 44 |
| | 20 | 9.760808 | 30 | 9.848539 | 45 | 0.151461 | 9.912269 | 15 | 40 | 1. 44 |
| | 30 | 9.760838 | 30 | 9.848583 | 44 | 0.151417 | 9.912255 | 14 | 30 | 2. 8.8 |
| | 40 | 9.760868 | 30 | 9.848628 | 45 | 0.151372 | 9.912240 | 15 | 20 | 3. 13.2 |
| | 50 | 9.760898 | 29 | 9.848673 | 45 | 0.151327 | 9.912225 | 15 | 10 | 4. 17.6 |
| 13 | 0 | 9.760927 | 30 | 9.848717 | 44 | 0.151283 | 9.912210 | 15 | 0 | 5. 22.0 |
| | 10 | 9.760957 | 30 | 9.848762 | 45 | 0.151238 | 9.912195 | 15 | 50 | 6. 26.4 |
| | 20 | 9.760987 | 30 | 9.848807 | 45 | 0.151193 | 9.912180 | 15 | 40 | 7. 30.8 |
| | 30 | 9.761017 | 30 | 9.848851 | 44 | 0.151149 | 9.912165 | 15 | 30 | 8. 35.2 |
| | 40 | 9.761047 | 30 | 9.848896 | 45 | 0.151104 | 9.912150 | 15 | 20 | 9. 39.6 |
| | 50 | 9.761076 | 29 | 9.848941 | 45 | 0.151059 | 9.912136 | 14 | 10 | * |
| 14 | 0 | 9.761106 | 30 | 9.848986 | 45 | 0.151014 | 9.912121 | 15 | 0 | 46 |
| | 10 | 9.761136 | 30 | 9.849030 | 44 | 0.150970 | 9.912106 | 15 | 50 | 1. 30 |
| | 20 | 9.761166 | 30 | 9.849075 | 45 | 0.150925 | 9.912091 | 15 | 40 | 1. 30 |
| | 30 | 9.761196 | 30 | 9.849120 | 45 | 0.150880 | 9.912076 | 15 | 30 | 2. 6.0 |
| | 40 | 9.761225 | 29 | 9.849164 | 44 | 0.150836 | 9.912061 | 15 | 20 | 3. 9.0 |
| | 50 | 9.761255 | 30 | 9.849209 | 45 | 0.150791 | 9.912046 | 15 | 10 | 4. 12.0 |
| 15 | 0 | 9.761285 | 30 | 9.849254 | 44 | 0.150746 | 9.912031 | 14 | 0 | 5. 15.0 |
| | 10 | 9.761315 | 30 | 9.849298 | 45 | 0.150702 | 9.912017 | 15 | 50 | 6. 18.0 |
| | 20 | 9.761345 | 30 | 9.849343 | 45 | 0.150657 | 9.912002 | 15 | 40 | 7. 21.0 |
| | 30 | 9.761374 | 29 | 9.849388 | 45 | 0.150612 | 9.911987 | 15 | 30 | 8. 24.0 |
| | 40 | 9.761404 | 30 | 9.849432 | 44 | 0.150568 | 9.911972 | 15 | 20 | 9. 27.0 |
| | 50 | 9.761434 | 30 | 9.849477 | 45 | 0.150523 | 9.911957 | 15 | 10 | |
| 16 | 0 | 9.761464 | 30 | 9.849522 | 45 | 0.150478 | 9.911942 | 15 | 0 | 44 |
| | 10 | 9.761494 | 30 | 9.849566 | 44 | 0.150434 | 9.911927 | 15 | 50 | 1. 29 |
| | 20 | 9.761523 | 29 | 9.849611 | 45 | 0.150389 | 9.911912 | 15 | 40 | 2. 5.8 |
| | 30 | 9.761553 | 30 | 9.849656 | 45 | 0.150344 | 9.911897 | 15 | 30 | 3. 8.7 |
| | 40 | 9.761583 | 30 | 9.849700 | 44 | 0.150300 | 9.911883 | 14 | 20 | 4. 11.6 |
| | 50 | 9.761613 | 29 | 9.849745 | 45 | 0.150255 | 9.911868 | 15 | 10 | 5. 14.5 |
| 17 | 0 | 9.761642 | 30 | 9.849790 | 45 | 0.150210 | 9.911853 | 15 | 0 | 6. 17.4 |
| | 10 | 9.761672 | 30 | 9.849834 | 44 | 0.150166 | 9.911838 | 15 | 50 | 7. 20.3 |
| | 20 | 9.761702 | 30 | 9.849879 | 45 | 0.150121 | 9.911823 | 15 | 40 | 8. 23.2 |
| | 30 | 9.761732 | 30 | 9.849924 | 45 | 0.150076 | 9.911808 | 15 | 30 | 9. 26.1 |
| | 40 | 9.761761 | 29 | 9.849968 | 44 | 0.150032 | 9.911793 | 15 | 20 | |
| | 50 | 9.761791 | 30 | 9.850013 | 45 | 0.150000 | 9.911778 | 15 | 10 | * |
| 18 | 0 | 9.761821 | 30 | 9.850057 | 44 | 0.150000 | 9.911763 | 15 | 0 | 42 |
| | 10 | 9.761851 | 30 | 9.850102 | 45 | 0.150000 | 9.911748 | 15 | 50 | 1. 15 |
| | 20 | 9.761880 | 29 | 9.850147 | 45 | 0.150000 | 9.911733 | 14 | 40 | 2. 3.0 |
| | 30 | 9.761910 | 30 | 9.850191 | 44 | 0.149809 | 9.911719 | 15 | 30 | 3. 4.5 |
| | 40 | 9.761940 | 30 | 9.850236 | 45 | 0.149764 | 9.911704 | 15 | 20 | 4. 6.0 |
| | 50 | 9.761969 | 29 | 9.850281 | 45 | 0.149719 | 9.911689 | 15 | 10 | 5. 7.5 |
| 19 | 0 | 9.761999 | 30 | 9.850325 | 44 | 0.149675 | 9.911674 | 15 | 0 | 6. 9.0 |
| | 10 | 9.762029 | 30 | 9.850370 | 45 | 0.149630 | 9.911659 | 15 | 50 | 7. 10.5 |
| | 20 | 9.762059 | 30 | 9.850415 | 45 | 0.149585 | 9.911644 | 15 | 40 | 8. 12.0 |
| | 30 | 9.762088 | 29 | 9.850459 | 44 | 0.149541 | 9.911629 | 15 | 30 | 9. 13.5 |
| | 40 | 9.762118 | 30 | 9.850504 | 45 | 0.149496 | 9.911614 | 15 | 20 | |
| | 50 | 9.762148 | 30 | 9.850548 | 44 | 0.149452 | 9.911599 | 15 | 10 | |
| 20 | 0 | 9.762177 | 29 | 9.850593 | 45 | 0.149407 | 9.911584 | 15 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|------------|----|----------|------|----------|----------|----|----|----|
| | 20 | 0 9.762177 | 30 | 9.850593 | 45 | 0.149407 | 9.911584 | 15 | 0 | 40 |
| 45 | 10 | 9.762207 | 30 | 9.850638 | 45 | 0.149362 | 9.911569 | 15 | 50 | |
| 1 4-5 | 20 | 9.762237 | 30 | 9.850682 | 44 | 0.149318 | 9.911555 | 14 | 40 | |
| 2 9.0 | 30 | 9.762267 | 30 | 9.850727 | 45 | 0.149273 | 9.911540 | 15 | 30 | |
| 3 13.5 | 40 | 9.762296 | 29 | 9.850772 | 45 | 0.149228 | 9.911525 | 15 | 20 | |
| 4 18.0 | 50 | 9.762326 | 30 | 9.850816 | 44 | 0.149184 | 9.911510 | 15 | 10 | |
| 5 22.5 | 0 | 9.762356 | 30 | 9.850861 | 45 | 0.149139 | 9.911495 | 15 | 0 | 39 |
| 6 27.0 | 10 | 9.762385 | 29 | 9.850905 | 44 | 0.149095 | 9.911480 | 15 | 50 | |
| 7 31.5 | 20 | 9.762415 | 30 | 9.850950 | 45 | 0.149050 | 9.911465 | 15 | 40 | |
| 8 36.0 | 30 | 9.762445 | 30 | 9.850995 | 45 | 0.149005 | 9.911450 | 15 | 30 | |
| 9 40.5 | 40 | 9.762474 | 29 | 9.851039 | 44 | 0.148961 | 9.911435 | 15 | 20 | |
| | 50 | 9.762504 | 30 | 9.851084 | 45 | 0.148916 | 9.911420 | 15 | 10 | |
| | 0 | 9.762534 | 30 | 9.851129 | 45 | 0.148871 | 9.911405 | 15 | 0 | 38 |
| 44 | 10 | 9.762563 | 29 | 9.851173 | 44 | 0.148827 | 9.911390 | 15 | 50 | |
| 1 4.4 | 20 | 9.762593 | 30 | 9.851218 | 45 | 0.148782 | 9.911375 | 15 | 40 | |
| 2 8.8 | 30 | 9.762623 | 30 | 9.851262 | 44 | 0.148738 | 9.911360 | 15 | 30 | |
| 3 13.2 | 40 | 9.762652 | 29 | 9.851307 | 45 | 0.148693 | 9.911345 | 15 | 20 | |
| 4 17.6 | 50 | 9.762682 | 30 | 9.851352 | 45 | 0.148648 | 9.911330 | 15 | 10 | |
| 5 22.0 | 0 | 9.762712 | 30 | 9.851396 | 44 | 0.148604 | 9.911315 | 15 | 0 | 37 |
| 6 26.4 | 10 | 9.762741 | 29 | 9.851441 | 45 | 0.148559 | 9.911300 | 15 | 50 | |
| 7 30.8 | 20 | 9.762771 | 30 | 9.851485 | 44 | 0.148515 | 9.911286 | 14 | 40 | |
| 8 35.2 | 30 | 9.762801 | 30 | 9.851530 | 45 | 0.148470 | 9.911271 | 15 | 30 | |
| 9 39.6 | 40 | 9.762830 | 29 | 9.851575 | 45 | 0.148425 | 9.911256 | 15 | 20 | |
| * | 50 | 9.762860 | 30 | 9.851619 | 44 | 0.148381 | 9.911241 | 15 | 10 | |
| | 0 | 9.762889 | 29 | 9.851664 | 45 | 0.148336 | 9.911226 | 15 | 0 | 36 |
| | 10 | 9.762919 | 30 | 9.851708 | 44 | 0.148292 | 9.911211 | 15 | 50 | |
| 30 | 20 | 9.762949 | 30 | 9.851753 | 45 | 0.148247 | 9.911196 | 15 | 40 | |
| 1 3.0 | 30 | 9.762978 | 30 | 9.851797 | 44 | 0.148203 | 9.911181 | 15 | 30 | |
| 2 6.0 | 40 | 9.763008 | 30 | 9.851842 | 45 | 0.148158 | 9.911166 | 15 | 20 | |
| 3 9.0 | 50 | 9.763038 | 30 | 9.851887 | 45 | 0.148113 | 9.911151 | 15 | 10 | |
| 4 12.0 | 0 | 9.763067 | 29 | 9.851931 | 44 | 0.148069 | 9.911136 | 15 | 0 | 35 |
| 5 15.0 | 10 | 9.763097 | 30 | 9.851976 | 45 | 0.148024 | 9.911121 | 15 | 50 | |
| 6 18.0 | 20 | 9.763126 | 29 | 9.852020 | 44 | 0.147980 | 9.911106 | 15 | 40 | |
| 7 21.0 | 30 | 9.763156 | 30 | 9.852065 | 45 | 0.147935 | 9.911091 | 15 | 30 | |
| 8 24.0 | 40 | 9.763186 | 30 | 9.852110 | 45 | 0.147890 | 9.911076 | 15 | 20 | |
| 9 27.0 | 50 | 9.763215 | 29 | 9.852154 | 44 | 0.147845 | 9.911061 | 15 | 10 | |
| | 0 | 9.763245 | 30 | 9.852199 | 45 | 0.147801 | 9.911046 | 15 | 0 | 34 |
| 29 | 10 | 9.763274 | 29 | 9.852243 | 44 | 0.147757 | 9.911031 | 15 | 50 | |
| 1 2.9 | 20 | 9.763304 | 30 | 9.852288 | 45 | 0.147712 | 9.911016 | 15 | 40 | |
| 2 5.8 | 30 | 9.763333 | 29 | 9.852332 | 44 | 0.147668 | 9.911001 | 15 | 30 | |
| 3 8.7 | 40 | 9.763363 | 30 | 9.852377 | 45 | 0.147623 | 9.910986 | 15 | 20 | |
| 4 11.6 | 50 | 9.763393 | 30 | 9.852422 | 45 | 0.147578 | 9.910971 | 15 | 10 | |
| 5 14.5 | 0 | 9.763422 | 29 | 9.852466 | 44 | 0.147534 | 9.910956 | 15 | 0 | 33 |
| 6 17.4 | 10 | 9.763452 | 30 | 9.852511 | 45 | 0.147489 | 9.910941 | 15 | 50 | |
| 7 20.3 | 20 | 9.763481 | 29 | 9.852555 | 44 | 0.147445 | 9.910926 | 15 | 40 | |
| 8 23.2 | 30 | 9.763511 | 30 | 9.852600 | 45 | 0.147400 | 9.910911 | 15 | 30 | |
| 9 26.1 | 40 | 9.763540 | 29 | 9.852644 | 44 | 0.147355 | 9.910896 | 15 | 20 | |
| * | 50 | 9.763570 | 30 | 9.852689 | 45 | 0.147311 | 9.910881 | 15 | 10 | |
| | 0 | 9.763600 | 30 | 9.852733 | 44 | 0.147267 | 9.910866 | 15 | 0 | 32 |
| | 10 | 9.763629 | 29 | 9.852778 | 45 | 0.147222 | 9.910851 | 15 | 50 | |
| | 20 | 9.763659 | 30 | 9.852823 | 45 | 0.147177 | 9.910836 | 15 | 40 | |
| | 30 | 9.763688 | 29 | 9.852867 | 44 | 0.147133 | 9.910821 | 15 | 30 | |
| 15 | 40 | 9.763718 | 30 | 9.852912 | 45 | 0.147088 | 9.910806 | 15 | 20 | |
| 1 1.5 | 50 | 9.763747 | 29 | 9.852956 | 44 | 0.147044 | 9.910791 | 15 | 10 | |
| 2 3.0 | 0 | 9.763777 | 30 | 9.853001 | 45 | 0.146999 | 9.910776 | 15 | 0 | 31 |
| 3 4.5 | 10 | 9.763806 | 29 | 9.853045 | 44 | 0.146955 | 9.910761 | 15 | 50 | |
| 4 6.0 | 20 | 9.763836 | 30 | 9.853090 | 45 | 0.146910 | 9.910746 | 15 | 40 | |
| 5 7.5 | 30 | 9.763865 | 29 | 9.853134 | 44 | 0.146866 | 9.910731 | 15 | 30 | |
| 6 9.0 | 40 | 9.763895 | 30 | 9.853179 | 45 | 0.146821 | 9.910716 | 15 | 20 | |
| 7 10.5 | 50 | 9.763925 | 30 | 9.853223 | 44 | 0.146777 | 9.910701 | 15 | 10 | |
| 8 12.0 | 0 | 9.763954 | 29 | 9.853268 | 45 | 0.146732 | 9.910686 | 15 | 0 | 30 |
| 9 13.5 | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 30 | 0 | 9.763954 | 30 | 9.853268 | 45 | 0.146672 | 9.910071 | 15 | 0 | 30 |
| | 10 | 9.763984 | 29 | 9.853313 | 44 | 0.146687 | 9.910071 | 15 | 50 | 45 |
| | 20 | 9.764013 | 30 | 9.853357 | 45 | 0.146643 | 9.910056 | 15 | 40 | 1 4.5 |
| | 30 | 9.764043 | 29 | 9.853402 | 45 | 0.146598 | 9.910041 | 15 | 30 | 2 9.0 |
| | 40 | 9.764072 | 29 | 9.853446 | 44 | 0.146554 | 9.910026 | 15 | 20 | 3 13.5 |
| | 50 | 9.764102 | 30 | 9.853491 | 45 | 0.146509 | 9.910011 | 15 | 10 | 4 18.0 |
| 31 | 0 | 9.764131 | 29 | 9.853535 | 44 | 0.146465 | 9.910596 | 15 | 0 | 5 22.5 |
| | 10 | 9.764161 | 30 | 9.853580 | 45 | 0.146420 | 9.910581 | 15 | 50 | 6 27.0 |
| | 20 | 9.764190 | 29 | 9.853624 | 44 | 0.146376 | 9.910566 | 15 | 40 | 7 31.5 |
| | 30 | 9.764220 | 30 | 9.853669 | 45 | 0.146331 | 9.910551 | 15 | 30 | 8 36.0 |
| | 40 | 9.764249 | 29 | 9.853713 | 44 | 0.146287 | 9.910536 | 15 | 20 | 9 40.5 |
| | 50 | 9.764279 | 30 | 9.853758 | 45 | 0.146242 | 9.910521 | 15 | 10 | |
| 32 | 0 | 9.764308 | 29 | 9.853802 | 44 | 0.146198 | 9.910506 | 15 | 0 | 28 |
| | 10 | 9.764338 | 30 | 9.853847 | 45 | 0.146153 | 9.910491 | 15 | 50 | 1 4.4 |
| | 20 | 9.764367 | 29 | 9.853891 | 44 | 0.146109 | 9.910476 | 15 | 40 | 2 8.8 |
| | 30 | 9.764396 | 30 | 9.853936 | 45 | 0.146064 | 9.910461 | 15 | 30 | 3 13.2 |
| | 40 | 9.764426 | 29 | 9.853980 | 44 | 0.146020 | 9.910446 | 15 | 20 | 4 17.6 |
| | 50 | 9.764455 | 30 | 9.854025 | 45 | 0.145975 | 9.910430 | 15 | 10 | 5 22.0 |
| 33 | 0 | 9.764485 | 29 | 9.854069 | 44 | 0.145931 | 9.910415 | 15 | 0 | 6 26.4 |
| | 10 | 9.764514 | 30 | 9.854114 | 45 | 0.145886 | 9.910400 | 15 | 50 | 7 30.8 |
| | 20 | 9.764544 | 29 | 9.854158 | 44 | 0.145842 | 9.910385 | 15 | 40 | 8 35.2 |
| | 30 | 9.764573 | 30 | 9.854203 | 45 | 0.145797 | 9.910370 | 15 | 30 | 9 39.6 |
| | 40 | 9.764603 | 29 | 9.854247 | 44 | 0.145753 | 9.910355 | 15 | 20 | |
| | 50 | 9.764632 | 30 | 9.854292 | 45 | 0.145708 | 9.910340 | 15 | 10 | |
| 34 | 0 | 9.764662 | 29 | 9.854336 | 44 | 0.145664 | 9.910325 | 15 | 0 | 26 |
| | 10 | 9.764691 | 30 | 9.854381 | 45 | 0.145619 | 9.910310 | 15 | 50 | * |
| | 20 | 9.764720 | 29 | 9.854425 | 44 | 0.145575 | 9.910295 | 15 | 40 | 30 |
| | 30 | 9.764750 | 30 | 9.854470 | 45 | 0.145530 | 9.910280 | 15 | 30 | 1 3.0 |
| | 40 | 9.764779 | 29 | 9.854514 | 44 | 0.145486 | 9.910265 | 15 | 20 | 2 6.0 |
| | 50 | 9.764809 | 30 | 9.854559 | 45 | 0.145441 | 9.910250 | 15 | 10 | 3 9.0 |
| 35 | 0 | 9.764838 | 29 | 9.854603 | 44 | 0.145397 | 9.910235 | 15 | 0 | 4 12.0 |
| | 10 | 9.764868 | 30 | 9.854648 | 45 | 0.145352 | 9.910220 | 15 | 50 | 5 15.0 |
| | 20 | 9.764897 | 29 | 9.854692 | 44 | 0.145308 | 9.910205 | 15 | 40 | 6 18.0 |
| | 30 | 9.764926 | 30 | 9.854737 | 45 | 0.145263 | 9.910190 | 15 | 30 | 7 21.0 |
| | 40 | 9.764956 | 29 | 9.854781 | 44 | 0.145219 | 9.910175 | 15 | 20 | 8 24.0 |
| | 50 | 9.764985 | 30 | 9.854826 | 45 | 0.145174 | 9.910159 | 15 | 10 | 9 27.0 |
| 36 | 0 | 9.765015 | 29 | 9.854870 | 44 | 0.145130 | 9.910144 | 15 | 0 | 24 |
| | 10 | 9.765044 | 30 | 9.854915 | 45 | 0.145085 | 9.910129 | 15 | 50 | 29 |
| | 20 | 9.765074 | 29 | 9.854959 | 44 | 0.145041 | 9.910114 | 15 | 40 | 1 2.9 |
| | 30 | 9.765103 | 30 | 9.855004 | 45 | 0.144996 | 9.910099 | 15 | 30 | 2 5.8 |
| | 40 | 9.765132 | 29 | 9.855048 | 44 | 0.144952 | 9.910084 | 15 | 20 | 3 8.7 |
| | 50 | 9.765162 | 30 | 9.855093 | 45 | 0.144907 | 9.910069 | 15 | 10 | 4 11.6 |
| 37 | 0 | 9.765191 | 29 | 9.855137 | 44 | 0.144863 | 9.910054 | 15 | 0 | 5 14.5 |
| | 10 | 9.765221 | 30 | 9.855182 | 45 | 0.144818 | 9.910039 | 15 | 50 | 6 17.4 |
| | 20 | 9.765250 | 29 | 9.855226 | 44 | 0.144774 | 9.910024 | 15 | 40 | 7 20.3 |
| | 30 | 9.765279 | 30 | 9.855271 | 45 | 0.144729 | 9.910009 | 15 | 30 | 8 23.2 |
| | 40 | 9.765309 | 29 | 9.855315 | 44 | 0.144685 | 9.909994 | 15 | 20 | 9 26.1 |
| | 50 | 9.765338 | 30 | 9.855360 | 45 | 0.144640 | 9.909978 | 15 | 10 | |
| 38 | 0 | 9.765367 | 29 | 9.855404 | 44 | 0.144596 | 9.909963 | 15 | 0 | 22 |
| | 10 | 9.765397 | 30 | 9.855449 | 45 | 0.144551 | 9.909948 | 15 | 50 | * |
| | 20 | 9.765426 | 29 | 9.855493 | 44 | 0.144507 | 9.909933 | 15 | 40 | 16 |
| | 30 | 9.765456 | 30 | 9.855537 | 45 | 0.144463 | 9.909918 | 15 | 30 | 1 1.6 |
| | 40 | 9.765485 | 29 | 9.855582 | 44 | 0.144418 | 9.909903 | 15 | 20 | 2 3.2 |
| | 50 | 9.765514 | 30 | 9.855626 | 45 | 0.144374 | 9.909888 | 15 | 10 | 3 4.8 |
| 39 | 0 | 9.765544 | 29 | 9.855671 | 44 | 0.144329 | 9.909873 | 15 | 0 | 4 6.4 |
| | 10 | 9.765573 | 30 | 9.855715 | 45 | 0.144285 | 9.909858 | 15 | 50 | 5 8.0 |
| | 20 | 9.765602 | 29 | 9.855760 | 44 | 0.144240 | 9.909843 | 15 | 40 | 6 9.6 |
| | 30 | 9.765632 | 30 | 9.855804 | 45 | 0.144196 | 9.909827 | 15 | 30 | 7 11.2 |
| | 40 | 9.765661 | 29 | 9.855849 | 44 | 0.144151 | 9.909812 | 15 | 20 | 8 12.8 |
| | 50 | 9.765690 | 30 | 9.855893 | 45 | 0.144107 | 9.909797 | 15 | 10 | 9 14.4 |
| 40 | 0 | 9.765720 | 29 | 9.855938 | 44 | 0.144062 | 9.909782 | 15 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 45 | 40 | 0 | 9.765720 | 29 | 9.855938 | 44 | 0.144062 | 9.909782 | 15 | 0 | 20 |
| 1 45 | 10 | 10 | 9.765749 | 29 | 9.855982 | 44 | 0.144018 | 9.909767 | 15 | 50 | |
| 2 9.0 | 20 | 20 | 9.765778 | 29 | 9.856026 | 44 | 0.143974 | 9.909752 | 15 | 40 | |
| 3 13.5 | 30 | 30 | 9.765808 | 29 | 9.856071 | 44 | 0.143929 | 9.909737 | 15 | 30 | |
| 4 18.0 | 40 | 40 | 9.765837 | 29 | 9.856115 | 44 | 0.143885 | 9.909722 | 15 | 20 | |
| 5 22.5 | 50 | 50 | 9.765866 | 29 | 9.856160 | 44 | 0.143840 | 9.909707 | 15 | 10 | |
| 6 27.0 | 41 | 0 | 9.765896 | 29 | 9.856204 | 44 | 0.143796 | 9.909691 | 15 | 0 | 19 |
| 7 31.5 | 10 | 10 | 9.765925 | 29 | 9.856249 | 44 | 0.143751 | 9.909676 | 15 | 50 | |
| 8 36.0 | 20 | 20 | 9.765954 | 29 | 9.856293 | 44 | 0.143707 | 9.909661 | 15 | 40 | |
| 9 40.5 | 30 | 30 | 9.765984 | 29 | 9.856338 | 44 | 0.143662 | 9.909646 | 15 | 30 | |
| | 40 | 40 | 9.766013 | 29 | 9.856382 | 44 | 0.143618 | 9.909631 | 15 | 20 | |
| | 50 | 50 | 9.766042 | 29 | 9.856426 | 44 | 0.143574 | 9.909616 | 15 | 10 | |
| 44 | 42 | 0 | 9.766072 | 29 | 9.856471 | 44 | 0.143529 | 9.909601 | 15 | 0 | 18 |
| 1 4.4 | 10 | 10 | 9.766101 | 29 | 9.856515 | 44 | 0.143485 | 9.909586 | 15 | 50 | |
| 2 8.8 | 20 | 20 | 9.766130 | 29 | 9.856560 | 44 | 0.143440 | 9.909570 | 15 | 40 | |
| 3 13.2 | 30 | 30 | 9.766159 | 29 | 9.856604 | 44 | 0.143396 | 9.909555 | 15 | 30 | |
| 4 17.6 | 40 | 40 | 9.766189 | 29 | 9.856649 | 44 | 0.143351 | 9.909540 | 15 | 20 | |
| 5 22.0 | 50 | 50 | 9.766218 | 29 | 9.856693 | 44 | 0.143307 | 9.909525 | 15 | 10 | |
| 6 26.4 | 43 | 0 | 9.766247 | 29 | 9.856737 | 44 | 0.143263 | 9.909510 | 15 | 0 | 17 |
| 7 30.8 | 10 | 10 | 9.766277 | 29 | 9.856782 | 44 | 0.143218 | 9.909495 | 15 | 50 | |
| 8 35.2 | 20 | 20 | 9.766306 | 29 | 9.856826 | 44 | 0.143174 | 9.909480 | 15 | 40 | |
| 9 39.6 | 30 | 30 | 9.766335 | 29 | 9.856871 | 44 | 0.143129 | 9.909464 | 15 | 30 | |
| * | 40 | 40 | 9.766364 | 29 | 9.856915 | 44 | 0.143085 | 9.909449 | 15 | 20 | |
| | 50 | 50 | 9.766394 | 29 | 9.856959 | 44 | 0.143041 | 9.909434 | 15 | 10 | |
| 30 | 44 | 0 | 9.766423 | 29 | 9.857004 | 44 | 0.142996 | 9.909419 | 15 | 0 | 16 |
| 1 3.0 | 10 | 10 | 9.766452 | 29 | 9.857048 | 44 | 0.142952 | 9.909404 | 15 | 50 | |
| 2 6.0 | 20 | 20 | 9.766481 | 29 | 9.857093 | 44 | 0.142907 | 9.909389 | 15 | 40 | |
| 3 9.0 | 30 | 30 | 9.766511 | 29 | 9.857137 | 44 | 0.142863 | 9.909374 | 15 | 30 | |
| 4 12.0 | 40 | 40 | 9.766540 | 29 | 9.857182 | 44 | 0.142818 | 9.909358 | 15 | 20 | |
| 5 15.0 | 50 | 50 | 9.766569 | 29 | 9.857226 | 44 | 0.142774 | 9.909343 | 15 | 10 | |
| 6 18.0 | 45 | 0 | 9.766598 | 29 | 9.857270 | 44 | 0.142730 | 9.909328 | 15 | 0 | 15 |
| 7 21.0 | 10 | 10 | 9.766628 | 29 | 9.857315 | 44 | 0.142685 | 9.909313 | 15 | 50 | |
| 8 24.0 | 20 | 20 | 9.766657 | 29 | 9.857359 | 44 | 0.142641 | 9.909298 | 15 | 40 | |
| 9 27.0 | 30 | 30 | 9.766686 | 29 | 9.857404 | 44 | 0.142596 | 9.909283 | 15 | 30 | |
| | 40 | 40 | 9.766715 | 29 | 9.857448 | 44 | 0.142552 | 9.909267 | 15 | 20 | |
| | 50 | 50 | 9.766745 | 29 | 9.857492 | 44 | 0.142508 | 9.909252 | 15 | 10 | |
| 29 | 46 | 0 | 9.766774 | 29 | 9.857537 | 44 | 0.142463 | 9.909237 | 15 | 0 | 14 |
| 1 2.9 | 10 | 10 | 9.766803 | 29 | 9.857581 | 44 | 0.142419 | 9.909222 | 15 | 50 | |
| 2 5.8 | 20 | 20 | 9.766832 | 29 | 9.857626 | 44 | 0.142374 | 9.909207 | 15 | 40 | |
| 3 8.7 | 30 | 30 | 9.766862 | 29 | 9.857670 | 44 | 0.142330 | 9.909192 | 15 | 30 | |
| 4 11.6 | 40 | 40 | 9.766891 | 29 | 9.857714 | 44 | 0.142286 | 9.909176 | 15 | 20 | |
| 5 14.5 | 50 | 50 | 9.766920 | 29 | 9.857759 | 44 | 0.142241 | 9.909161 | 15 | 10 | |
| 6 17.4 | 47 | 0 | 9.766949 | 29 | 9.857803 | 44 | 0.142197 | 9.909146 | 15 | 0 | 13 |
| 7 20.3 | 10 | 10 | 9.766978 | 29 | 9.857848 | 44 | 0.142152 | 9.909131 | 15 | 50 | |
| 8 23.2 | 20 | 20 | 9.767008 | 29 | 9.857892 | 44 | 0.142108 | 9.909116 | 15 | 40 | |
| 9 26.1 | 30 | 30 | 9.767037 | 29 | 9.857936 | 44 | 0.142064 | 9.909101 | 15 | 30 | |
| | 40 | 40 | 9.767066 | 29 | 9.857981 | 44 | 0.142019 | 9.909085 | 15 | 20 | |
| | 50 | 50 | 9.767095 | 29 | 9.858025 | 44 | 0.141975 | 9.909070 | 15 | 10 | |
| * | 48 | 0 | 9.767124 | 29 | 9.858069 | 44 | 0.141930 | 9.909055 | 15 | 0 | 12 |
| 15 | 10 | 10 | 9.767154 | 29 | 9.858114 | 44 | 0.141886 | 9.909040 | 15 | 50 | |
| 1 1.5 | 20 | 20 | 9.767183 | 29 | 9.858158 | 44 | 0.141842 | 9.909025 | 15 | 40 | |
| 2 3.0 | 30 | 30 | 9.767212 | 29 | 9.858203 | 44 | 0.141797 | 9.909009 | 15 | 30 | |
| 3 4.5 | 40 | 40 | 9.767241 | 29 | 9.858247 | 44 | 0.141753 | 9.908994 | 15 | 20 | |
| 4 6.0 | 50 | 50 | 9.767270 | 29 | 9.858291 | 44 | 0.141709 | 9.908979 | 15 | 10 | |
| 5 7.5 | 49 | 0 | 9.767300 | 29 | 9.858336 | 44 | 0.141664 | 9.908964 | 15 | 0 | 11 |
| 6 9.0 | 10 | 10 | 9.767329 | 29 | 9.858380 | 44 | 0.141620 | 9.908949 | 15 | 50 | |
| 7 10.5 | 20 | 20 | 9.767358 | 29 | 9.858424 | 44 | 0.141576 | 9.908933 | 15 | 40 | |
| 8 12.0 | 30 | 30 | 9.767387 | 29 | 9.858469 | 44 | 0.141531 | 9.908918 | 15 | 30 | |
| 9 13.5 | 40 | 40 | 9.767416 | 29 | 9.858513 | 44 | 0.141487 | 9.908903 | 15 | 20 | |
| | 50 | 50 | 9.767445 | 29 | 9.858558 | 44 | 0.141442 | 9.908888 | 15 | 10 | |
| | 40 | 0 | 9.767475 | 29 | 9.858602 | 44 | 0.141398 | 9.908873 | 15 | 0 | 10 |
| | ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 50 | 0 | 9.767475 | 29 | 9.858602 | 44 | 0.141398 | 9.908873 | 16 | 0 | 10 |
| | 10 | 9.767504 | 29 | 9.858646 | 44 | 0.141354 | 9.908857 | 15 | 50 | |
| | 20 | 9.767533 | 29 | 9.858691 | 45 | 0.141309 | 9.908842 | 15 | 40 | |
| | 30 | 9.767562 | 29 | 9.858735 | 44 | 0.141265 | 9.908827 | 15 | 30 | |
| | 40 | 9.767591 | 29 | 9.858779 | 44 | 0.141221 | 9.908812 | 15 | 20 | |
| | 50 | 9.767620 | 29 | 9.858824 | 45 | 0.141176 | 9.908797 | 15 | 10 | |
| 51 | 0 | 9.767649 | 29 | 9.858868 | 44 | 0.141132 | 9.908781 | 16 | 0 | |
| | 10 | 9.767679 | 30 | 9.858912 | 44 | 0.141088 | 9.908766 | 15 | 50 | |
| | 20 | 9.767708 | 29 | 9.858957 | 45 | 0.141043 | 9.908751 | 15 | 40 | |
| | 30 | 9.767737 | 29 | 9.859001 | 44 | 0.140999 | 9.908736 | 15 | 30 | |
| | 40 | 9.767766 | 29 | 9.859045 | 44 | 0.140955 | 9.908721 | 15 | 20 | |
| | 50 | 9.767795 | 29 | 9.859090 | 45 | 0.140910 | 9.908705 | 16 | 10 | |
| 52 | 0 | 9.767824 | 29 | 9.859134 | 44 | 0.140866 | 9.908690 | 15 | 0 | |
| | 10 | 9.767853 | 29 | 9.859178 | 44 | 0.140822 | 9.908675 | 15 | 50 | |
| | 20 | 9.767882 | 29 | 9.859223 | 45 | 0.140777 | 9.908660 | 15 | 40 | |
| | 30 | 9.767912 | 30 | 9.859267 | 44 | 0.140733 | 9.908644 | 16 | 30 | |
| | 40 | 9.767941 | 29 | 9.859311 | 44 | 0.140689 | 9.908629 | 15 | 20 | |
| | 50 | 9.767970 | 29 | 9.859356 | 45 | 0.140644 | 9.908614 | 15 | 10 | |
| 53 | 0 | 9.767999 | 29 | 9.859400 | 44 | 0.140600 | 9.908599 | 15 | 0 | |
| | 10 | 9.768028 | 29 | 9.859444 | 44 | 0.140556 | 9.908584 | 15 | 50 | |
| | 20 | 9.768057 | 29 | 9.859489 | 45 | 0.140511 | 9.908568 | 16 | 40 | |
| | 30 | 9.768086 | 29 | 9.859533 | 44 | 0.140467 | 9.908553 | 15 | 30 | |
| | 40 | 9.768115 | 29 | 9.859577 | 44 | 0.140423 | 9.908538 | 15 | 20 | |
| | 50 | 9.768144 | 29 | 9.859622 | 45 | 0.140378 | 9.908523 | 15 | 10 | |
| 54 | 0 | 9.768173 | 29 | 9.859666 | 44 | 0.140334 | 9.908507 | 16 | 0 | |
| | 10 | 9.768203 | 30 | 9.859710 | 44 | 0.140290 | 9.908492 | 15 | 50 | |
| | 20 | 9.768232 | 29 | 9.859755 | 45 | 0.140245 | 9.908477 | 15 | 40 | |
| | 30 | 9.768261 | 29 | 9.859799 | 44 | 0.140201 | 9.908462 | 15 | 30 | |
| | 40 | 9.768290 | 29 | 9.859843 | 44 | 0.140157 | 9.908446 | 16 | 20 | |
| | 50 | 9.768319 | 29 | 9.859888 | 45 | 0.140112 | 9.908431 | 15 | 10 | |
| 55 | 0 | 9.768348 | 29 | 9.859932 | 44 | 0.140068 | 9.908416 | 15 | 0 | |
| | 10 | 9.768377 | 29 | 9.859976 | 44 | 0.140024 | 9.908401 | 15 | 50 | |
| | 20 | 9.768406 | 29 | 9.860021 | 45 | 0.139979 | 9.908385 | 16 | 40 | |
| | 30 | 9.768435 | 29 | 9.860065 | 44 | 0.139935 | 9.908370 | 15 | 30 | |
| | 40 | 9.768464 | 29 | 9.860109 | 44 | 0.139891 | 9.908355 | 15 | 20 | |
| | 50 | 9.768493 | 29 | 9.860154 | 45 | 0.139846 | 9.908340 | 15 | 10 | |
| 56 | 0 | 9.768522 | 29 | 9.860198 | 44 | 0.139802 | 9.908324 | 16 | 0 | |
| | 10 | 9.768551 | 29 | 9.860242 | 44 | 0.139757 | 9.908309 | 15 | 50 | |
| | 20 | 9.768580 | 29 | 9.860287 | 45 | 0.139713 | 9.908294 | 15 | 40 | |
| | 30 | 9.768609 | 29 | 9.860331 | 44 | 0.139669 | 9.908279 | 15 | 30 | |
| | 40 | 9.768638 | 29 | 9.860375 | 44 | 0.139625 | 9.908263 | 16 | 20 | |
| | 50 | 9.768668 | 30 | 9.860420 | 45 | 0.139580 | 9.908248 | 15 | 10 | |
| 57 | 0 | 9.768697 | 29 | 9.860464 | 44 | 0.139536 | 9.908233 | 15 | 0 | |
| | 10 | 9.768726 | 29 | 9.860508 | 44 | 0.139492 | 9.908217 | 16 | 50 | |
| | 20 | 9.768755 | 29 | 9.860552 | 44 | 0.139448 | 9.908202 | 15 | 40 | |
| | 30 | 9.768784 | 29 | 9.860597 | 45 | 0.139403 | 9.908187 | 15 | 30 | |
| | 40 | 9.768813 | 29 | 9.860641 | 44 | 0.139359 | 9.908172 | 15 | 20 | |
| | 50 | 9.768842 | 29 | 9.860685 | 44 | 0.139315 | 9.908156 | 16 | 10 | |
| 58 | 0 | 9.768871 | 29 | 9.860730 | 45 | 0.139270 | 9.908141 | 15 | 0 | |
| | 10 | 9.768900 | 29 | 9.860774 | 44 | 0.139226 | 9.908126 | 15 | 50 | |
| | 20 | 9.768929 | 29 | 9.860818 | 44 | 0.139182 | 9.908111 | 15 | 40 | |
| | 30 | 9.768958 | 29 | 9.860862 | 44 | 0.139138 | 9.908095 | 16 | 30 | |
| | 40 | 9.768987 | 29 | 9.860907 | 45 | 0.139093 | 9.908080 | 15 | 20 | |
| | 50 | 9.769016 | 29 | 9.860951 | 44 | 0.139049 | 9.908065 | 15 | 10 | |
| 59 | 0 | 9.769045 | 29 | 9.860995 | 44 | 0.139005 | 9.908049 | 16 | 0 | |
| | 10 | 9.769074 | 29 | 9.861040 | 45 | 0.138960 | 9.908034 | 15 | 50 | |
| | 20 | 9.769103 | 29 | 9.861084 | 44 | 0.138916 | 9.908019 | 15 | 40 | |
| | 30 | 9.769132 | 29 | 9.861128 | 44 | 0.138872 | 9.908004 | 15 | 30 | |
| | 40 | 9.769161 | 29 | 9.861172 | 44 | 0.138828 | 9.907988 | 16 | 20 | |
| | 50 | 9.769190 | 29 | 9.861217 | 45 | 0.138783 | 9.907973 | 15 | 10 | |
| 60 | 0 | 9.769219 | 29 | 9.861261 | 44 | 0.138739 | 9.907958 | 15 | 0 | |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

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9 14.4

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 45 | 0 | 9.769219 | 29 | 9.861261 | 44 | 0.138739 | 9.907958 | 16 | 0 | 60 |
| 1 4.5 | 10 | 9.769248 | 29 | 9.861305 | 45 | 0.138695 | 9.907942 | 15 | 50 | |
| 2 9.0 | 20 | 9.769277 | 29 | 9.861350 | 45 | 0.138650 | 9.907927 | 15 | 40 | |
| 3 13.5 | 30 | 9.769306 | 29 | 9.861394 | 44 | 0.138606 | 9.907912 | 15 | 30 | |
| 4 18.0 | 40 | 9.769335 | 29 | 9.861438 | 44 | 0.138562 | 9.907896 | 16 | 20 | |
| 5 22.5 | 50 | 9.769364 | 29 | 9.861482 | 44 | 0.138518 | 9.907881 | 15 | 10 | |
| 6 27.0 | 0 | 9.769393 | 28 | 9.861527 | 45 | 0.138473 | 9.907866 | 15 | 0 | 59 |
| 7 31.5 | 10 | 9.769421 | 29 | 9.861571 | 44 | 0.138429 | 9.907851 | 15 | 50 | |
| 8 36.0 | 20 | 9.769450 | 29 | 9.861615 | 44 | 0.138385 | 9.907835 | 16 | 40 | |
| 9 40.5 | 30 | 9.769479 | 29 | 9.861659 | 44 | 0.138341 | 9.907820 | 15 | 30 | |
| | 40 | 9.769508 | 29 | 9.861704 | 45 | 0.138296 | 9.907805 | 15 | 20 | |
| | 50 | 9.769537 | 29 | 9.861748 | 44 | 0.138252 | 9.907789 | 16 | 10 | |
| 44 | 0 | 9.769566 | 29 | 9.861792 | 44 | 0.138208 | 9.907774 | 15 | 0 | 58 |
| 1 4.4 | 10 | 9.769595 | 29 | 9.861837 | 45 | 0.138163 | 9.907759 | 15 | 50 | |
| 2 8.8 | 20 | 9.769624 | 29 | 9.861881 | 44 | 0.138119 | 9.907743 | 16 | 40 | |
| 3 13.2 | 30 | 9.769653 | 29 | 9.861925 | 44 | 0.138075 | 9.907728 | 15 | 30 | |
| 4 17.6 | 40 | 9.769682 | 29 | 9.861969 | 44 | 0.138031 | 9.907713 | 15 | 20 | |
| 5 22.0 | 50 | 9.769711 | 29 | 9.862014 | 45 | 0.137986 | 9.907697 | 16 | 10 | |
| 6 26.4 | 0 | 9.769740 | 29 | 9.862058 | 44 | 0.137942 | 9.907682 | 15 | 0 | 57 |
| 7 30.8 | 10 | 9.769769 | 29 | 9.862102 | 44 | 0.137898 | 9.907667 | 15 | 50 | |
| 8 35.2 | 20 | 9.769798 | 29 | 9.862146 | 44 | 0.137854 | 9.907651 | 16 | 40 | |
| 9 39.6 | 30 | 9.769827 | 29 | 9.862191 | 45 | 0.137809 | 9.907636 | 15 | 30 | |
| * | 40 | 9.769856 | 29 | 9.862235 | 44 | 0.137765 | 9.907621 | 15 | 20 | |
| | 50 | 9.769884 | 28 | 9.862279 | 44 | 0.137721 | 9.907605 | 16 | 10 | |
| | 0 | 9.769913 | 29 | 9.862323 | 44 | 0.137677 | 9.907590 | 15 | 0 | 56 |
| 29 | 10 | 9.769942 | 29 | 9.862368 | 45 | 0.137632 | 9.907575 | 15 | 50 | |
| 1 2.9 | 20 | 9.769971 | 29 | 9.862412 | 44 | 0.137588 | 9.907559 | 16 | 40 | |
| 2 5.8 | 30 | 9.770000 | 29 | 9.862456 | 44 | 0.137544 | 9.907544 | 15 | 30 | |
| 3 8.7 | 40 | 9.770029 | 29 | 9.862500 | 44 | 0.137500 | 9.907529 | 15 | 20 | |
| 4 11.6 | 50 | 9.770058 | 29 | 9.862545 | 45 | 0.137455 | 9.907513 | 16 | 10 | |
| 5 14.5 | 0 | 9.770087 | 29 | 9.862589 | 44 | 0.137411 | 9.907498 | 15 | 0 | 55 |
| 6 17.4 | 10 | 9.770116 | 29 | 9.862633 | 44 | 0.137367 | 9.907483 | 15 | 50 | |
| 7 20.3 | 20 | 9.770145 | 29 | 9.862677 | 44 | 0.137323 | 9.907467 | 16 | 40 | |
| 8 23.2 | 30 | 9.770173 | 28 | 9.862721 | 45 | 0.137279 | 9.907452 | 15 | 30 | |
| 9 26.1 | 40 | 9.770202 | 29 | 9.862766 | 44 | 0.137234 | 9.907437 | 15 | 20 | |
| | 50 | 9.770231 | 29 | 9.862810 | 44 | 0.137190 | 9.907422 | 16 | 10 | |
| 28 | 0 | 9.770260 | 29 | 9.862854 | 44 | 0.137146 | 9.907406 | 15 | 0 | 54 |
| 1 2.8 | 10 | 9.770289 | 29 | 9.862898 | 44 | 0.137102 | 9.907391 | 15 | 50 | |
| 2 5.6 | 20 | 9.770318 | 29 | 9.862943 | 45 | 0.137057 | 9.907375 | 16 | 40 | |
| 3 8.4 | 30 | 9.770347 | 29 | 9.862987 | 44 | 0.137013 | 9.907360 | 15 | 30 | |
| 4 11.2 | 40 | 9.770376 | 29 | 9.863031 | 44 | 0.136969 | 9.907344 | 16 | 20 | |
| 5 14.0 | 50 | 9.770404 | 28 | 9.863075 | 44 | 0.136925 | 9.907329 | 15 | 10 | |
| 6 16.8 | 0 | 9.770433 | 29 | 9.863119 | 45 | 0.136881 | 9.907314 | 15 | 0 | 53 |
| 7 19.6 | 10 | 9.770462 | 29 | 9.863164 | 44 | 0.136836 | 9.907298 | 16 | 50 | |
| 8 22.4 | 20 | 9.770491 | 29 | 9.863208 | 44 | 0.136792 | 9.907283 | 15 | 40 | |
| 9 25.2 | 30 | 9.770520 | 29 | 9.863252 | 44 | 0.136748 | 9.907268 | 15 | 30 | |
| * | 40 | 9.770549 | 29 | 9.863296 | 44 | 0.136704 | 9.907252 | 16 | 20 | |
| | 50 | 9.770577 | 28 | 9.863341 | 45 | 0.136659 | 9.907237 | 15 | 10 | |
| | 0 | 9.770606 | 29 | 9.863385 | 44 | 0.136615 | 9.907222 | 15 | 0 | 52 |
| | 10 | 9.770635 | 29 | 9.863429 | 44 | 0.136571 | 9.907206 | 16 | 50 | |
| 15 | 20 | 9.770664 | 29 | 9.863473 | 44 | 0.136527 | 9.907191 | 15 | 40 | |
| 1 1.5 | 30 | 9.770693 | 29 | 9.863517 | 44 | 0.136483 | 9.907175 | 16 | 30 | |
| 2 3.0 | 40 | 9.770722 | 29 | 9.863562 | 45 | 0.136438 | 9.907160 | 15 | 20 | |
| 3 4.5 | 50 | 9.770750 | 28 | 9.863606 | 44 | 0.136394 | 9.907145 | 15 | 10 | |
| 4 6.0 | 0 | 9.770779 | 29 | 9.863650 | 44 | 0.136350 | 9.907129 | 16 | 0 | 51 |
| 5 7.5 | 10 | 9.770808 | 29 | 9.863694 | 44 | 0.136306 | 9.907114 | 15 | 50 | |
| 6 9.0 | 20 | 9.770837 | 29 | 9.863738 | 44 | 0.136262 | 9.907099 | 15 | 40 | |
| 7 10.5 | 30 | 9.770866 | 29 | 9.863783 | 45 | 0.136217 | 9.907083 | 16 | 30 | |
| 8 12.0 | 40 | 9.770895 | 29 | 9.863827 | 44 | 0.136173 | 9.907068 | 15 | 20 | |
| 9 13.5 | 50 | 9.770923 | 28 | 9.863871 | 44 | 0.136129 | 9.907052 | 16 | 10 | |
| | 0 | 9.770952 | 29 | 9.863915 | 44 | 0.136085 | 9.907037 | 15 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 10 | 0 | 9.770952 | 29 | 9.863915 | 44 | 0.136085 | 9.907037 | 15 | 0 | 50 |
| 10 | 10 | 9.770981 | 29 | 9.863959 | 44 | 0.136041 | 9.907022 | 15 | 50 | 45 |
| 20 | 0 | 9.771010 | 29 | 9.864004 | 45 | 0.135996 | 9.907006 | 16 | 40 | 1 4.5 |
| 30 | 0 | 9.771039 | 28 | 9.864048 | 44 | 0.135952 | 9.906991 | 15 | 30 | 2 9.0 |
| 40 | 0 | 9.771067 | 29 | 9.864092 | 44 | 0.135908 | 9.906975 | 16 | 20 | 3 13.5 |
| 50 | 0 | 9.771096 | 29 | 9.864136 | 44 | 0.135864 | 9.906960 | 15 | 10 | 4 18.0 |
| 11 | 0 | 9.771125 | 29 | 9.864180 | 44 | 0.135820 | 9.906945 | 15 | 0 | 5 22.5 |
| 10 | 10 | 9.771154 | 29 | 9.864225 | 45 | 0.135775 | 9.906929 | 16 | 0 | 6 27.0 |
| 20 | 0 | 9.771183 | 28 | 9.864269 | 44 | 0.135731 | 9.906914 | 15 | 50 | 7 31.5 |
| 30 | 0 | 9.771211 | 29 | 9.864313 | 44 | 0.135687 | 9.906898 | 16 | 40 | 8 36.0 |
| 40 | 0 | 9.771240 | 29 | 9.864357 | 44 | 0.135643 | 9.906883 | 15 | 30 | 9 40.5 |
| 50 | 0 | 9.771269 | 29 | 9.864401 | 44 | 0.135599 | 9.906868 | 15 | 20 | |
| 12 | 0 | 9.771298 | 28 | 9.864445 | 44 | 0.135555 | 9.906852 | 16 | 10 | |
| 10 | 10 | 9.771326 | 29 | 9.864490 | 45 | 0.135511 | 9.906837 | 15 | 0 | 44 |
| 20 | 0 | 9.771355 | 29 | 9.864534 | 44 | 0.135466 | 9.906821 | 16 | 50 | 1 4.4 |
| 30 | 0 | 9.771384 | 29 | 9.864578 | 44 | 0.135422 | 9.906806 | 15 | 40 | 2 8.8 |
| 40 | 0 | 9.771413 | 28 | 9.864622 | 44 | 0.135378 | 9.906791 | 16 | 30 | 3 13.2 |
| 50 | 0 | 9.771441 | 29 | 9.864666 | 44 | 0.135334 | 9.906775 | 15 | 20 | 4 17.6 |
| 13 | 0 | 9.771470 | 29 | 9.864710 | 44 | 0.135290 | 9.906760 | 16 | 10 | 5 22.0 |
| 10 | 10 | 9.771499 | 29 | 9.864755 | 45 | 0.135245 | 9.906744 | 15 | 0 | 6 26.4 |
| 20 | 0 | 9.771528 | 28 | 9.864799 | 44 | 0.135201 | 9.906729 | 16 | 50 | 7 30.8 |
| 30 | 0 | 9.771556 | 29 | 9.864843 | 44 | 0.135157 | 9.906713 | 15 | 40 | 8 35.2 |
| 40 | 0 | 9.771585 | 29 | 9.864887 | 44 | 0.135113 | 9.906698 | 16 | 30 | 9 39.6 |
| 50 | 0 | 9.771614 | 29 | 9.864931 | 44 | 0.135069 | 9.906683 | 15 | 20 | |
| 14 | 0 | 9.771643 | 28 | 9.864975 | 44 | 0.135025 | 9.906667 | 16 | 10 | * |
| 10 | 10 | 9.771671 | 29 | 9.865020 | 45 | 0.134980 | 9.906652 | 15 | 0 | |
| 20 | 0 | 9.771700 | 29 | 9.865064 | 44 | 0.134936 | 9.906636 | 16 | 50 | 29 |
| 30 | 0 | 9.771729 | 29 | 9.865108 | 44 | 0.134892 | 9.906621 | 15 | 40 | 1 2.9 |
| 40 | 0 | 9.771758 | 28 | 9.865152 | 44 | 0.134848 | 9.906605 | 16 | 30 | 2 5.8 |
| 50 | 0 | 9.771786 | 29 | 9.865196 | 44 | 0.134804 | 9.906590 | 15 | 20 | 3 8.7 |
| 15 | 0 | 9.771815 | 29 | 9.865240 | 44 | 0.134760 | 9.906575 | 16 | 10 | 4 11.6 |
| 10 | 10 | 9.771844 | 28 | 9.865285 | 45 | 0.134715 | 9.906559 | 15 | 0 | 5 14.5 |
| 20 | 0 | 9.771872 | 29 | 9.865329 | 44 | 0.134671 | 9.906544 | 16 | 50 | 6 17.4 |
| 30 | 0 | 9.771901 | 29 | 9.865373 | 44 | 0.134627 | 9.906528 | 15 | 40 | 7 20.3 |
| 40 | 0 | 9.771930 | 29 | 9.865417 | 44 | 0.134583 | 9.906513 | 16 | 30 | 8 23.2 |
| 50 | 0 | 9.771959 | 28 | 9.865461 | 44 | 0.134539 | 9.906497 | 15 | 20 | 9 26.1 |
| 16 | 0 | 9.771987 | 29 | 9.865505 | 44 | 0.134495 | 9.906482 | 16 | 10 | |
| 10 | 10 | 9.772016 | 29 | 9.865549 | 45 | 0.134451 | 9.906466 | 15 | 0 | 28 |
| 20 | 0 | 9.772045 | 28 | 9.865594 | 44 | 0.134406 | 9.906451 | 16 | 50 | 1 2.8 |
| 30 | 0 | 9.772073 | 29 | 9.865638 | 44 | 0.134362 | 9.906436 | 15 | 40 | 2 5.6 |
| 40 | 0 | 9.772102 | 29 | 9.865682 | 44 | 0.134318 | 9.906420 | 16 | 30 | 3 8.4 |
| 50 | 0 | 9.772131 | 28 | 9.865726 | 44 | 0.134274 | 9.906405 | 15 | 20 | 4 11.2 |
| 17 | 0 | 9.772159 | 29 | 9.865770 | 44 | 0.134230 | 9.906389 | 16 | 10 | 5 14.0 |
| 10 | 10 | 9.772188 | 29 | 9.865814 | 45 | 0.134186 | 9.906374 | 15 | 0 | 6 16.8 |
| 20 | 0 | 9.772217 | 28 | 9.865858 | 44 | 0.134142 | 9.906358 | 16 | 50 | 7 19.6 |
| 30 | 0 | 9.772245 | 29 | 9.865903 | 44 | 0.134097 | 9.906343 | 15 | 40 | 8 22.4 |
| 40 | 0 | 9.772274 | 29 | 9.865947 | 44 | 0.134053 | 9.906327 | 16 | 30 | 9 25.2 |
| 50 | 0 | 9.772303 | 28 | 9.865991 | 44 | 0.134009 | 9.906312 | 15 | 20 | |
| 18 | 0 | 9.772331 | 29 | 9.866035 | 44 | 0.133965 | 9.906296 | 16 | 10 | * |
| 10 | 10 | 9.772360 | 29 | 9.866079 | 45 | 0.133921 | 9.906281 | 15 | 0 | |
| 20 | 0 | 9.772389 | 28 | 9.866123 | 44 | 0.133877 | 9.906265 | 16 | 50 | 16 |
| 30 | 0 | 9.772417 | 29 | 9.866167 | 44 | 0.133833 | 9.906250 | 15 | 40 | 1 1.6 |
| 40 | 0 | 9.772446 | 29 | 9.866211 | 44 | 0.133789 | 9.906235 | 16 | 30 | 2 3.2 |
| 50 | 0 | 9.772475 | 28 | 9.866256 | 45 | 0.133744 | 9.906219 | 15 | 20 | 3 4.8 |
| 19 | 0 | 9.772503 | 29 | 9.866300 | 44 | 0.133700 | 9.906204 | 16 | 10 | 4 6.4 |
| 10 | 10 | 9.772532 | 29 | 9.866344 | 45 | 0.133656 | 9.906188 | 15 | 0 | 5 8.0 |
| 20 | 0 | 9.772561 | 28 | 9.866388 | 44 | 0.133612 | 9.906173 | 16 | 50 | 6 9.6 |
| 30 | 0 | 9.772589 | 29 | 9.866432 | 44 | 0.133568 | 9.906157 | 15 | 40 | 7 11.2 |
| 40 | 0 | 9.772618 | 29 | 9.866476 | 44 | 0.133524 | 9.906142 | 16 | 30 | 8 12.8 |
| 50 | 0 | 9.772646 | 28 | 9.866520 | 44 | 0.133480 | 9.906126 | 15 | 20 | 9 14.4 |
| 20 | 0 | 9.772675 | 29 | 9.866564 | 44 | 0.133436 | 9.906111 | 16 | 10 | |
| | | | | | | | | | 0 | 40 |

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| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | 9.772675 | 29 | 9.866564 | 45 | 0.133436 | 9.906111 | 16 | 0 | 40 |
| | 10 | 9.772704 | 28 | 9.866609 | 44 | 0.133391 | 9.906095 | 15 | 50 | |
| | 20 | 9.772732 | 28 | 9.866653 | 44 | 0.133347 | 9.906080 | 15 | 40 | |
| | 30 | 9.772761 | 29 | 9.866697 | 44 | 0.133303 | 9.906064 | 15 | 30 | |
| | 40 | 9.772790 | 28 | 9.866741 | 44 | 0.133259 | 9.906049 | 15 | 20 | |
| | 50 | 9.772818 | 28 | 9.866785 | 44 | 0.133215 | 9.906033 | 16 | 10 | |
| 21 | 0 | 9.772847 | 29 | 9.866829 | 44 | 0.133171 | 9.906018 | 15 | 0 | 39 |
| | 10 | 9.772875 | 29 | 9.866873 | 44 | 0.133127 | 9.906002 | 15 | 50 | |
| | 20 | 9.772904 | 29 | 9.866917 | 44 | 0.133083 | 9.905987 | 15 | 40 | |
| | 30 | 9.772933 | 29 | 9.866961 | 44 | 0.133039 | 9.905971 | 15 | 30 | |
| | 40 | 9.772961 | 28 | 9.867006 | 45 | 0.132994 | 9.905956 | 15 | 20 | |
| | 50 | 9.772990 | 29 | 9.867050 | 44 | 0.132950 | 9.905940 | 16 | 10 | |
| 22 | 0 | 9.773018 | 29 | 9.867094 | 44 | 0.132906 | 9.905925 | 15 | 0 | 38 |
| | 10 | 9.773047 | 29 | 9.867138 | 44 | 0.132862 | 9.905909 | 15 | 50 | |
| | 20 | 9.773076 | 29 | 9.867182 | 44 | 0.132818 | 9.905894 | 15 | 40 | |
| | 30 | 9.773104 | 28 | 9.867226 | 44 | 0.132774 | 9.905878 | 15 | 30 | |
| | 40 | 9.773133 | 28 | 9.867270 | 44 | 0.132730 | 9.905863 | 15 | 20 | |
| | 50 | 9.773161 | 29 | 9.867314 | 44 | 0.132686 | 9.905847 | 16 | 10 | |
| 23 | 0 | 9.773190 | 29 | 9.867358 | 44 | 0.132642 | 9.905832 | 15 | 0 | 37 |
| | 10 | 9.773219 | 28 | 9.867402 | 44 | 0.132598 | 9.905816 | 15 | 50 | |
| | 20 | 9.773247 | 29 | 9.867446 | 44 | 0.132554 | 9.905801 | 15 | 40 | |
| | 30 | 9.773276 | 29 | 9.867491 | 45 | 0.132509 | 9.905785 | 15 | 30 | |
| | 40 | 9.773304 | 28 | 9.867535 | 44 | 0.132465 | 9.905770 | 15 | 20 | |
| | 50 | 9.773333 | 29 | 9.867579 | 44 | 0.132421 | 9.905754 | 16 | 10 | |
| 24 | 0 | 9.773361 | 29 | 9.867623 | 44 | 0.132377 | 9.905739 | 15 | 0 | 36 |
| | 10 | 9.773390 | 28 | 9.867667 | 44 | 0.132333 | 9.905723 | 15 | 50 | |
| | 20 | 9.773418 | 29 | 9.867711 | 44 | 0.132289 | 9.905708 | 15 | 40 | |
| | 30 | 9.773447 | 29 | 9.867755 | 44 | 0.132245 | 9.905692 | 15 | 30 | |
| | 40 | 9.773476 | 29 | 9.867799 | 44 | 0.132201 | 9.905676 | 16 | 20 | |
| | 50 | 9.773504 | 28 | 9.867843 | 44 | 0.132157 | 9.905661 | 15 | 10 | |
| 25 | 0 | 9.773533 | 28 | 9.867887 | 44 | 0.132113 | 9.905645 | 15 | 0 | 35 |
| | 10 | 9.773561 | 29 | 9.867931 | 44 | 0.132069 | 9.905630 | 15 | 50 | |
| | 20 | 9.773590 | 28 | 9.867975 | 44 | 0.132025 | 9.905614 | 16 | 40 | |
| | 30 | 9.773618 | 28 | 9.868019 | 44 | 0.131981 | 9.905599 | 15 | 30 | |
| | 40 | 9.773647 | 29 | 9.868064 | 45 | 0.131936 | 9.905583 | 15 | 20 | |
| | 50 | 9.773675 | 28 | 9.868108 | 44 | 0.131892 | 9.905568 | 15 | 10 | |
| 26 | 0 | 9.773704 | 29 | 9.868152 | 44 | 0.131848 | 9.905552 | 15 | 0 | 34 |
| | 10 | 9.773732 | 29 | 9.868196 | 44 | 0.131804 | 9.905537 | 15 | 50 | |
| | 20 | 9.773761 | 29 | 9.868240 | 44 | 0.131760 | 9.905521 | 15 | 40 | |
| | 30 | 9.773789 | 28 | 9.868284 | 44 | 0.131716 | 9.905506 | 15 | 30 | |
| | 40 | 9.773818 | 28 | 9.868328 | 44 | 0.131672 | 9.905490 | 15 | 20 | |
| | 50 | 9.773846 | 29 | 9.868372 | 44 | 0.131628 | 9.905475 | 16 | 10 | |
| 27 | 0 | 9.773875 | 29 | 9.868416 | 44 | 0.131584 | 9.905459 | 15 | 0 | 33 |
| | 10 | 9.773903 | 29 | 9.868460 | 44 | 0.131540 | 9.905443 | 15 | 50 | |
| | 20 | 9.773932 | 29 | 9.868504 | 44 | 0.131496 | 9.905428 | 15 | 40 | |
| | 30 | 9.773960 | 28 | 9.868548 | 44 | 0.131452 | 9.905412 | 15 | 30 | |
| | 40 | 9.773989 | 29 | 9.868592 | 44 | 0.131408 | 9.905397 | 15 | 20 | |
| | 50 | 9.774017 | 28 | 9.868636 | 44 | 0.131364 | 9.905381 | 16 | 10 | |
| 28 | 0 | 9.774046 | 29 | 9.868680 | 44 | 0.131320 | 9.905366 | 15 | 0 | 32 |
| | 10 | 9.774074 | 29 | 9.868724 | 44 | 0.131276 | 9.905350 | 15 | 50 | |
| | 20 | 9.774103 | 29 | 9.868768 | 44 | 0.131232 | 9.905334 | 15 | 40 | |
| | 30 | 9.774131 | 28 | 9.868813 | 45 | 0.131187 | 9.905319 | 15 | 30 | |
| | 40 | 9.774160 | 29 | 9.868857 | 44 | 0.131143 | 9.905303 | 15 | 20 | |
| | 50 | 9.774188 | 28 | 9.868901 | 44 | 0.131099 | 9.905288 | 15 | 10 | |
| 29 | 0 | 9.774217 | 29 | 9.868945 | 44 | 0.131055 | 9.905272 | 15 | 0 | 31 |
| | 10 | 9.774245 | 29 | 9.868989 | 44 | 0.131011 | 9.905257 | 15 | 50 | |
| | 20 | 9.774274 | 29 | 9.869033 | 44 | 0.130967 | 9.905241 | 15 | 40 | |
| | 30 | 9.774302 | 28 | 9.869077 | 44 | 0.130923 | 9.905225 | 15 | 30 | |
| | 40 | 9.774331 | 29 | 9.869121 | 44 | 0.130879 | 9.905210 | 15 | 20 | |
| | 50 | 9.774359 | 28 | 9.869165 | 44 | 0.130835 | 9.905194 | 16 | 10 | |
| 30 | 0 | 9.774388 | 29 | 9.869209 | 44 | 0.130791 | 9.905179 | 15 | 0 | 30 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 30 | 0 | 9.774388 | 28 | 9.869209 | 44 | 0.130791 | 9.905179 | 16 | 0 | 30 |
| | 10 | 9.774416 | 29 | 9.869253 | 44 | 0.130747 | 9.905163 | 15 | 50 | |
| | 20 | 9.774445 | 29 | 9.869297 | 44 | 0.130703 | 9.905148 | 15 | 40 | |
| | 30 | 9.774473 | 28 | 9.869341 | 44 | 0.130659 | 9.905132 | 16 | 30 | |
| | 40 | 9.774501 | 29 | 9.869385 | 44 | 0.130615 | 9.905116 | 16 | 20 | |
| | 50 | 9.774530 | 28 | 9.869429 | 44 | 0.130571 | 9.905101 | 15 | 10 | |
| 31 | 0 | 9.774558 | 29 | 9.869473 | 44 | 0.130527 | 9.905085 | 15 | 0 | 29 |
| | 10 | 9.774587 | 29 | 9.869517 | 44 | 0.130483 | 9.905070 | 16 | 50 | |
| | 20 | 9.774615 | 28 | 9.869561 | 44 | 0.130439 | 9.905054 | 16 | 40 | |
| | 30 | 9.774644 | 29 | 9.869605 | 44 | 0.130395 | 9.905038 | 16 | 30 | |
| | 40 | 9.774672 | 28 | 9.869649 | 44 | 0.130351 | 9.905023 | 15 | 20 | |
| | 50 | 9.774700 | 29 | 9.869693 | 44 | 0.130307 | 9.905007 | 16 | 10 | |
| 32 | 0 | 9.774729 | 28 | 9.869737 | 44 | 0.130263 | 9.904992 | 15 | 0 | 28 |
| | 10 | 9.774757 | 29 | 9.869781 | 44 | 0.130219 | 9.904976 | 16 | 50 | |
| | 20 | 9.774786 | 28 | 9.869825 | 44 | 0.130175 | 9.904960 | 16 | 40 | |
| | 30 | 9.774814 | 28 | 9.869869 | 44 | 0.130131 | 9.904945 | 15 | 30 | |
| | 40 | 9.774842 | 29 | 9.869913 | 44 | 0.130087 | 9.904929 | 16 | 20 | |
| | 50 | 9.774871 | 28 | 9.869957 | 44 | 0.130043 | 9.904914 | 16 | 10 | |
| 33 | 0 | 9.774899 | 29 | 9.870001 | 44 | 0.129999 | 9.904898 | 16 | 0 | 27 |
| | 10 | 9.774928 | 28 | 9.870045 | 44 | 0.129955 | 9.904882 | 15 | 50 | |
| | 20 | 9.774956 | 29 | 9.870089 | 44 | 0.129911 | 9.904867 | 16 | 40 | |
| | 30 | 9.774985 | 28 | 9.870133 | 44 | 0.129867 | 9.904851 | 16 | 30 | |
| | 40 | 9.775013 | 29 | 9.870177 | 44 | 0.129823 | 9.904836 | 15 | 20 | |
| | 50 | 9.775041 | 28 | 9.870221 | 44 | 0.129779 | 9.904820 | 16 | 10 | |
| 34 | 0 | 9.775070 | 29 | 9.870265 | 44 | 0.129735 | 9.904804 | 15 | 0 | 26 |
| | 10 | 9.775098 | 28 | 9.870309 | 44 | 0.129691 | 9.904789 | 16 | 50 | |
| | 20 | 9.775126 | 29 | 9.870353 | 44 | 0.129647 | 9.904773 | 16 | 40 | |
| | 30 | 9.775155 | 28 | 9.870397 | 44 | 0.129603 | 9.904757 | 16 | 30 | |
| | 40 | 9.775183 | 29 | 9.870441 | 44 | 0.129559 | 9.904742 | 15 | 20 | |
| | 50 | 9.775212 | 28 | 9.870485 | 44 | 0.129515 | 9.904726 | 16 | 10 | |
| 35 | 0 | 9.775240 | 29 | 9.870529 | 44 | 0.129471 | 9.904711 | 15 | 0 | 25 |
| | 10 | 9.775268 | 28 | 9.870573 | 44 | 0.129427 | 9.904695 | 16 | 50 | |
| | 20 | 9.775297 | 29 | 9.870617 | 44 | 0.129383 | 9.904679 | 16 | 40 | |
| | 30 | 9.775325 | 28 | 9.870661 | 44 | 0.129339 | 9.904664 | 15 | 30 | |
| | 40 | 9.775353 | 29 | 9.870705 | 44 | 0.129295 | 9.904648 | 16 | 20 | |
| | 50 | 9.775382 | 28 | 9.870749 | 44 | 0.129251 | 9.904632 | 16 | 10 | |
| 36 | 0 | 9.775410 | 29 | 9.870793 | 44 | 0.129207 | 9.904617 | 15 | 0 | 24 |
| | 10 | 9.775438 | 28 | 9.870837 | 44 | 0.129163 | 9.904601 | 16 | 50 | |
| | 20 | 9.775467 | 29 | 9.870881 | 44 | 0.129119 | 9.904586 | 15 | 40 | |
| | 30 | 9.775495 | 28 | 9.870925 | 44 | 0.129075 | 9.904570 | 16 | 30 | |
| | 40 | 9.775523 | 29 | 9.870969 | 44 | 0.129031 | 9.904554 | 16 | 20 | |
| | 50 | 9.775552 | 28 | 9.871013 | 44 | 0.128987 | 9.904539 | 15 | 10 | |
| 37 | 0 | 9.775580 | 29 | 9.871057 | 44 | 0.128943 | 9.904523 | 16 | 0 | 23 |
| | 10 | 9.775608 | 28 | 9.871101 | 44 | 0.128899 | 9.904507 | 15 | 50 | |
| | 20 | 9.775637 | 29 | 9.871145 | 44 | 0.128855 | 9.904492 | 16 | 40 | |
| | 30 | 9.775665 | 28 | 9.871189 | 44 | 0.128811 | 9.904476 | 16 | 30 | |
| | 40 | 9.775693 | 29 | 9.871233 | 44 | 0.128767 | 9.904460 | 16 | 20 | |
| | 50 | 9.775722 | 28 | 9.871277 | 44 | 0.128723 | 9.904445 | 15 | 10 | |
| 38 | 0 | 9.775750 | 29 | 9.871321 | 44 | 0.128679 | 9.904429 | 16 | 0 | 22 |
| | 10 | 9.775778 | 28 | 9.871365 | 44 | 0.128635 | 9.904413 | 15 | 50 | |
| | 20 | 9.775807 | 29 | 9.871409 | 44 | 0.128591 | 9.904398 | 16 | 40 | |
| | 30 | 9.775835 | 28 | 9.871453 | 44 | 0.128547 | 9.904382 | 16 | 30 | |
| | 40 | 9.775863 | 29 | 9.871497 | 44 | 0.128503 | 9.904366 | 16 | 20 | |
| | 50 | 9.775892 | 28 | 9.871541 | 44 | 0.128459 | 9.904351 | 15 | 10 | |
| 39 | 0 | 9.775920 | 29 | 9.871585 | 44 | 0.128415 | 9.904335 | 16 | 0 | 21 |
| | 10 | 9.775948 | 28 | 9.871629 | 44 | 0.128371 | 9.904319 | 15 | 50 | |
| | 20 | 9.775977 | 29 | 9.871673 | 44 | 0.128327 | 9.904304 | 16 | 40 | |
| | 30 | 9.776005 | 28 | 9.871717 | 44 | 0.128283 | 9.904288 | 16 | 30 | |
| | 40 | 9.776033 | 29 | 9.871761 | 44 | 0.128239 | 9.904272 | 16 | 20 | |
| | 50 | 9.776061 | 28 | 9.871805 | 44 | 0.128195 | 9.904257 | 15 | 10 | |
| 40 | 0 | 9.776090 | 29 | 9.871849 | 44 | 0.128151 | 9.904241 | 16 | 0 | 20 |

45
1 4.5
2 9.0
3 13.5
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6 27.0
7 31.5
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9 14.4

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 44 | 0 | 9.776090 | 28 | 9.871849 | 44 | 0.128151 | 9.904241 | 16 | 0 | 20 |
| 1 4.4 | 10 | 9.776118 | 28 | 9.871893 | 44 | 0.128107 | 9.904225 | 15 | 50 | |
| 2 8.8 | 20 | 9.776146 | 28 | 9.871937 | 44 | 0.128063 | 9.904210 | 16 | 40 | |
| 3 13.2 | 30 | 9.776175 | 29 | 9.871980 | 43 | 0.128020 | 9.904194 | 16 | 30 | |
| 4 17.6 | 40 | 9.776203 | 28 | 9.872024 | 44 | 0.127976 | 9.904178 | 15 | 20 | |
| 5 22.0 | 50 | 9.776231 | 28 | 9.872068 | 44 | 0.127932 | 9.904163 | 16 | 10 | |
| 6 26.4 | 0 | 9.776259 | 29 | 9.872112 | 44 | 0.127888 | 9.904147 | 16 | 0 | 19 |
| 7 30.8 | 10 | 9.776288 | 28 | 9.872156 | 44 | 0.127844 | 9.904131 | 15 | 50 | |
| 8 35.2 | 20 | 9.776316 | 28 | 9.872200 | 44 | 0.127800 | 9.904116 | 16 | 40 | |
| 9 39.6 | 30 | 9.776344 | 28 | 9.872244 | 44 | 0.127756 | 9.904100 | 16 | 30 | |
| | 40 | 9.776372 | 28 | 9.872288 | 44 | 0.127712 | 9.904084 | 15 | 20 | |
| | 50 | 9.776401 | 29 | 9.872332 | 44 | 0.127668 | 9.904069 | 16 | 10 | |
| 43 | 0 | 9.776429 | 28 | 9.872376 | 44 | 0.127624 | 9.904053 | 16 | 0 | 18 |
| 1 4.3 | 10 | 9.776457 | 28 | 9.872420 | 44 | 0.127580 | 9.904037 | 16 | 50 | |
| 2 8.6 | 20 | 9.776485 | 28 | 9.872464 | 44 | 0.127536 | 9.904021 | 15 | 40 | |
| 3 12.9 | 30 | 9.776514 | 29 | 9.872508 | 44 | 0.127492 | 9.904006 | 16 | 30 | |
| 4 17.2 | 40 | 9.776542 | 28 | 9.872552 | 44 | 0.127448 | 9.903990 | 16 | 20 | |
| 5 21.5 | 50 | 9.776570 | 28 | 9.872596 | 44 | 0.127404 | 9.903974 | 15 | 10 | |
| 6 25.8 | 0 | 9.776598 | 29 | 9.872640 | 44 | 0.127360 | 9.903959 | 16 | 0 | 17 |
| 7 30.1 | 10 | 9.776627 | 28 | 9.872684 | 43 | 0.127316 | 9.903943 | 16 | 50 | |
| 8 34.4 | 20 | 9.776655 | 28 | 9.872727 | 44 | 0.127273 | 9.903927 | 15 | 40 | |
| 9 38.7 | 30 | 9.776683 | 28 | 9.872771 | 44 | 0.127229 | 9.903912 | 16 | 30 | |
| | 40 | 9.776711 | 28 | 9.872815 | 44 | 0.127185 | 9.903896 | 16 | 20 | |
| | 50 | 9.776739 | 29 | 9.872859 | 44 | 0.127141 | 9.903880 | 16 | 10 | |
| * | 0 | 9.776768 | 28 | 9.872903 | 44 | 0.127097 | 9.903864 | 15 | 0 | 16 |
| 29 | 10 | 9.776796 | 28 | 9.872947 | 44 | 0.127053 | 9.903849 | 16 | 50 | |
| 1 2.9 | 20 | 9.776824 | 28 | 9.872991 | 44 | 0.127009 | 9.903833 | 16 | 40 | |
| 2 5.8 | 30 | 9.776852 | 28 | 9.873035 | 44 | 0.126965 | 9.903817 | 16 | 30 | |
| 3 8.7 | 40 | 9.776880 | 29 | 9.873079 | 44 | 0.126921 | 9.903802 | 15 | 20 | |
| 4 11.6 | 50 | 9.776909 | 28 | 9.873123 | 44 | 0.126877 | 9.903786 | 16 | 10 | |
| 5 14.5 | 0 | 9.776937 | 28 | 9.873167 | 44 | 0.126833 | 9.903770 | 16 | 0 | 15 |
| 6 17.4 | 10 | 9.776965 | 28 | 9.873211 | 44 | 0.126789 | 9.903754 | 15 | 50 | |
| 7 20.3 | 20 | 9.776993 | 28 | 9.873255 | 44 | 0.126745 | 9.903739 | 16 | 40 | |
| 8 23.2 | 30 | 9.777021 | 28 | 9.873299 | 44 | 0.126701 | 9.903723 | 16 | 30 | |
| 9 26.1 | 40 | 9.777050 | 29 | 9.873342 | 43 | 0.126658 | 9.903707 | 16 | 20 | |
| | 50 | 9.777078 | 28 | 9.873386 | 44 | 0.126614 | 9.903691 | 15 | 10 | |
| 28 | 0 | 9.777106 | 28 | 9.873430 | 44 | 0.126570 | 9.903676 | 16 | 0 | 14 |
| 1 2.8 | 10 | 9.777134 | 28 | 9.873474 | 44 | 0.126526 | 9.903660 | 16 | 50 | |
| 2 5.6 | 20 | 9.777162 | 29 | 9.873518 | 44 | 0.126482 | 9.903644 | 15 | 40 | |
| 3 8.4 | 30 | 9.777191 | 28 | 9.873562 | 44 | 0.126438 | 9.903629 | 16 | 30 | |
| 4 11.2 | 40 | 9.777219 | 28 | 9.873606 | 44 | 0.126394 | 9.903613 | 16 | 20 | |
| 5 14.0 | 50 | 9.777247 | 28 | 9.873650 | 44 | 0.126350 | 9.903597 | 16 | 10 | |
| 6 16.8 | 0 | 9.777275 | 28 | 9.873694 | 44 | 0.126306 | 9.903581 | 16 | 0 | 13 |
| 7 19.6 | 10 | 9.777303 | 28 | 9.873738 | 44 | 0.126262 | 9.903566 | 15 | 50 | |
| 8 22.4 | 20 | 9.777331 | 28 | 9.873781 | 43 | 0.126219 | 9.903550 | 16 | 40 | |
| 9 25.2 | 30 | 9.777359 | 28 | 9.873825 | 44 | 0.126175 | 9.903534 | 16 | 30 | |
| | 40 | 9.777388 | 29 | 9.873869 | 44 | 0.126131 | 9.903518 | 16 | 20 | |
| | 50 | 9.777416 | 28 | 9.873913 | 44 | 0.126087 | 9.903503 | 15 | 10 | |
| * | 0 | 9.777444 | 28 | 9.873957 | 44 | 0.126043 | 9.903487 | 16 | 0 | 12 |
| 15 | 10 | 9.777472 | 28 | 9.874001 | 44 | 0.125999 | 9.903471 | 16 | 50 | |
| 1 1.5 | 20 | 9.777500 | 28 | 9.874045 | 44 | 0.125955 | 9.903455 | 15 | 40 | |
| 2 3.0 | 30 | 9.777528 | 28 | 9.874089 | 44 | 0.125911 | 9.903440 | 16 | 30 | |
| 3 4.5 | 40 | 9.777556 | 28 | 9.874133 | 44 | 0.125867 | 9.903424 | 16 | 20 | |
| 4 6.0 | 50 | 9.777585 | 29 | 9.874177 | 44 | 0.125823 | 9.903408 | 16 | 10 | |
| 5 7.5 | 0 | 9.777613 | 28 | 9.874220 | 43 | 0.125780 | 9.903392 | 16 | 0 | 11 |
| 6 9.0 | 10 | 9.777641 | 28 | 9.874264 | 44 | 0.125736 | 9.903377 | 15 | 50 | |
| 7 10.5 | 20 | 9.777669 | 28 | 9.874308 | 44 | 0.125692 | 9.903361 | 16 | 40 | |
| 8 12.0 | 30 | 9.777697 | 28 | 9.874352 | 44 | 0.125648 | 9.903345 | 16 | 30 | |
| 9 13.5 | 40 | 9.777725 | 28 | 9.874396 | 44 | 0.125604 | 9.903329 | 16 | 20 | |
| | 50 | 9.777753 | 28 | 9.874440 | 44 | 0.125560 | 9.903313 | 15 | 10 | |
| | 0 | 9.777781 | 28 | 9.874484 | 44 | 0.125516 | 9.903298 | 15 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.777781 | 29 | 9.874484 | 44 | 0.125516 | 9.903298 | 16 | 0 | 10 |
| | 10 | 9.777810 | 28 | 9.874528 | 44 | 0.125472 | 9.903282 | 16 | 50 | 44 |
| | 20 | 9.777838 | 28 | 9.874572 | 44 | 0.125428 | 9.903266 | 16 | 40 | 1 4.4 |
| | 30 | 9.777866 | 28 | 9.874615 | 44 | 0.125385 | 9.903250 | 16 | 30 | 2 8.8 |
| | 40 | 9.777894 | 28 | 9.874659 | 44 | 0.125341 | 9.903235 | 15 | 20 | 3 13.2 |
| | 50 | 9.777922 | 28 | 9.874703 | 44 | 0.125297 | 9.903219 | 16 | 10 | 4 17.6 |
| 51 | 0 | 9.777950 | 28 | 9.874747 | 44 | 0.125253 | 9.903203 | 16 | 0 | 5 22.0 |
| | 10 | 9.777978 | 28 | 9.874791 | 44 | 0.125209 | 9.903187 | 16 | 50 | 6 26.4 |
| | 20 | 9.778006 | 28 | 9.874835 | 44 | 0.125165 | 9.903171 | 16 | 40 | 7 30.8 |
| | 30 | 9.778034 | 28 | 9.874879 | 44 | 0.125121 | 9.903156 | 15 | 30 | 8 35.2 |
| | 40 | 9.778062 | 28 | 9.874923 | 44 | 0.125077 | 9.903140 | 16 | 20 | 9 39.6 |
| | 50 | 9.778091 | 29 | 9.874966 | 44 | 0.125034 | 9.903124 | 16 | 10 | |
| 52 | 0 | 9.778119 | 28 | 9.875010 | 44 | 0.124990 | 9.903108 | 15 | 0 | 8 43 |
| | 10 | 9.778147 | 28 | 9.875054 | 44 | 0.124946 | 9.903093 | 16 | 50 | 1 4.3 |
| | 20 | 9.778175 | 28 | 9.875098 | 44 | 0.124902 | 9.903077 | 16 | 40 | 2 8.6 |
| | 30 | 9.778203 | 28 | 9.875142 | 44 | 0.124858 | 9.903061 | 16 | 30 | 3 12.9 |
| | 40 | 9.778231 | 28 | 9.875186 | 44 | 0.124814 | 9.903045 | 16 | 20 | 4 17.2 |
| | 50 | 9.778259 | 28 | 9.875230 | 44 | 0.124770 | 9.903029 | 15 | 10 | 5 21.5 |
| 53 | 0 | 9.778287 | 28 | 9.875273 | 44 | 0.124727 | 9.903013 | 16 | 0 | 6 25.8 |
| | 10 | 9.778315 | 28 | 9.875317 | 44 | 0.124683 | 9.902998 | 16 | 50 | 7 30.1 |
| | 20 | 9.778343 | 28 | 9.875361 | 44 | 0.124639 | 9.902982 | 16 | 40 | 8 34.4 |
| | 30 | 9.778371 | 28 | 9.875405 | 44 | 0.124595 | 9.902966 | 16 | 30 | 9 38.7 |
| | 40 | 9.778399 | 28 | 9.875449 | 44 | 0.124551 | 9.902950 | 16 | 20 | |
| | 50 | 9.778427 | 28 | 9.875493 | 44 | 0.124507 | 9.902935 | 15 | 10 | |
| 54 | 0 | 9.778455 | 28 | 9.875537 | 44 | 0.124463 | 9.902919 | 16 | 0 | 6 * |
| | 10 | 9.778483 | 28 | 9.875580 | 44 | 0.124420 | 9.902903 | 16 | 50 | |
| | 20 | 9.778511 | 28 | 9.875624 | 44 | 0.124376 | 9.902887 | 16 | 40 | 28 |
| | 30 | 9.778539 | 28 | 9.875668 | 44 | 0.124332 | 9.902871 | 16 | 30 | 1 2.8 |
| | 40 | 9.778567 | 28 | 9.875712 | 44 | 0.124288 | 9.902856 | 15 | 20 | 2 5.6 |
| | 50 | 9.778595 | 29 | 9.875756 | 44 | 0.124244 | 9.902840 | 16 | 10 | 3 8.4 |
| 55 | 0 | 9.778624 | 28 | 9.875800 | 43 | 0.124200 | 9.902824 | 16 | 0 | 4 11.2 |
| | 10 | 9.778652 | 28 | 9.875843 | 44 | 0.124157 | 9.902808 | 16 | 50 | 5 14.0 |
| | 20 | 9.778680 | 28 | 9.875887 | 44 | 0.124113 | 9.902792 | 16 | 40 | 6 16.8 |
| | 30 | 9.778708 | 28 | 9.875931 | 44 | 0.124069 | 9.902776 | 16 | 30 | 7 19.6 |
| | 40 | 9.778736 | 28 | 9.875975 | 44 | 0.124025 | 9.902761 | 15 | 20 | 8 22.4 |
| | 50 | 9.778764 | 28 | 9.876019 | 44 | 0.123981 | 9.902745 | 16 | 10 | 9 25.2 |
| 56 | 0 | 9.778792 | 28 | 9.876063 | 44 | 0.123937 | 9.902729 | 16 | 0 | 4 27 |
| | 10 | 9.778820 | 28 | 9.876107 | 44 | 0.123893 | 9.902713 | 16 | 50 | 1 2.7 |
| | 20 | 9.778848 | 28 | 9.876150 | 43 | 0.123850 | 9.902697 | 16 | 40 | 2 5.4 |
| | 30 | 9.778876 | 28 | 9.876194 | 44 | 0.123806 | 9.902681 | 16 | 30 | 3 8.1 |
| | 40 | 9.778904 | 28 | 9.876238 | 44 | 0.123762 | 9.902666 | 15 | 20 | 4 10.8 |
| | 50 | 9.778932 | 28 | 9.876282 | 44 | 0.123718 | 9.902650 | 16 | 10 | 5 13.5 |
| 57 | 0 | 9.778960 | 28 | 9.876326 | 44 | 0.123674 | 9.902634 | 16 | 0 | 6 16.2 |
| | 10 | 9.778988 | 28 | 9.876370 | 44 | 0.123630 | 9.902618 | 16 | 50 | 7 18.9 |
| | 20 | 9.779016 | 28 | 9.876413 | 43 | 0.123587 | 9.902602 | 16 | 40 | 8 21.6 |
| | 30 | 9.779044 | 28 | 9.876457 | 44 | 0.123543 | 9.902586 | 16 | 30 | 9 24.3 |
| | 40 | 9.779072 | 28 | 9.876501 | 44 | 0.123499 | 9.902571 | 15 | 20 | |
| | 50 | 9.779100 | 28 | 9.876545 | 44 | 0.123455 | 9.902555 | 16 | 10 | |
| 58 | 0 | 9.779128 | 28 | 9.876589 | 44 | 0.123411 | 9.902539 | 16 | 0 | 2 * |
| | 10 | 9.779156 | 28 | 9.876632 | 43 | 0.123368 | 9.902523 | 16 | 50 | 16 |
| | 20 | 9.779183 | 27 | 9.876676 | 44 | 0.123324 | 9.902507 | 16 | 40 | 1 1.6 |
| | 30 | 9.779211 | 28 | 9.876720 | 44 | 0.123280 | 9.902491 | 16 | 30 | 2 3.2 |
| | 40 | 9.779239 | 28 | 9.876764 | 44 | 0.123236 | 9.902475 | 16 | 20 | 3 4.8 |
| | 50 | 9.779267 | 28 | 9.876808 | 44 | 0.123192 | 9.902460 | 15 | 10 | 4 6.4 |
| 59 | 0 | 9.779295 | 28 | 9.876852 | 44 | 0.123148 | 9.902444 | 16 | 0 | 5 8.0 |
| | 10 | 9.779323 | 28 | 9.876895 | 43 | 0.123105 | 9.902428 | 16 | 50 | 6 9.6 |
| | 20 | 9.779351 | 28 | 9.876939 | 44 | 0.123061 | 9.902412 | 16 | 40 | 7 11.2 |
| | 30 | 9.779379 | 28 | 9.876983 | 44 | 0.123017 | 9.902396 | 16 | 30 | 8 12.8 |
| | 40 | 9.779407 | 28 | 9.877027 | 44 | 0.122973 | 9.902380 | 16 | 20 | 9 14.4 |
| | 50 | 9.779435 | 28 | 9.877071 | 44 | 0.122929 | 9.902364 | 16 | 10 | |
| 60 | 0 | 9.779463 | 28 | 9.877114 | 43 | 0.122886 | 9.902349 | 15 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 44 | 0 | 9.779463 | 28 | 9.877114 | 44 | 0.122886 | 9.902349 | 16 | 0 | 60 |
| 1 4.4 | 10 | 9.779491 | 28 | 9.877158 | 44 | 0.122842 | 9.902333 | 16 | 50 | |
| 2 8.8 | 20 | 9.779519 | 28 | 9.877202 | 44 | 0.122798 | 9.902317 | 16 | 40 | |
| 3 13.2 | 30 | 9.779547 | 28 | 9.877246 | 44 | 0.122754 | 9.902301 | 16 | 30 | |
| 4 17.6 | 40 | 9.779575 | 28 | 9.877290 | 44 | 0.122710 | 9.902285 | 16 | 20 | |
| 5 22.0 | 50 | 9.779603 | 28 | 9.877333 | 43 | 0.122667 | 9.902269 | 16 | 10 | |
| 6 26.4 | 1 | 9.779631 | 28 | 9.877377 | 44 | 0.122623 | 9.902253 | 15 | 0 | 59 |
| 7 30.8 | 10 | 9.779659 | 27 | 9.877421 | 44 | 0.122579 | 9.902238 | 16 | 50 | |
| 8 35.2 | 20 | 9.779686 | 28 | 9.877465 | 44 | 0.122535 | 9.902222 | 16 | 40 | |
| 9 39.6 | 30 | 9.779714 | 28 | 9.877509 | 44 | 0.122491 | 9.902206 | 16 | 30 | |
| | 40 | 9.779742 | 28 | 9.877552 | 43 | 0.122448 | 9.902190 | 16 | 20 | |
| | 50 | 9.779770 | 28 | 9.877596 | 44 | 0.122404 | 9.902174 | 16 | 10 | |
| 43 | 2 | 9.779798 | 28 | 9.877640 | 44 | 0.122360 | 9.902158 | 16 | 0 | 58 |
| 1 4.3 | 10 | 9.779826 | 28 | 9.877684 | 44 | 0.122316 | 9.902142 | 16 | 50 | |
| 2 8.6 | 20 | 9.779854 | 28 | 9.877728 | 44 | 0.122272 | 9.902126 | 16 | 40 | |
| 3 12.9 | 30 | 9.779882 | 28 | 9.877771 | 43 | 0.122229 | 9.902110 | 16 | 30 | |
| 4 17.2 | 40 | 9.779910 | 28 | 9.877815 | 44 | 0.122185 | 9.902095 | 16 | 20 | |
| 5 21.5 | 50 | 9.779938 | 28 | 9.877859 | 44 | 0.122141 | 9.902079 | 16 | 10 | |
| 6 25.8 | 3 | 9.779966 | 28 | 9.877903 | 44 | 0.122097 | 9.902063 | 16 | 0 | 57 |
| 7 30.1 | 10 | 9.779993 | 27 | 9.877947 | 44 | 0.122053 | 9.902047 | 16 | 50 | |
| 8 34.4 | 20 | 9.780021 | 28 | 9.877990 | 43 | 0.122010 | 9.902031 | 16 | 40 | |
| 9 38.7 | 30 | 9.780049 | 28 | 9.878034 | 44 | 0.121966 | 9.902015 | 16 | 30 | |
| | 40 | 9.780077 | 28 | 9.878078 | 44 | 0.121922 | 9.901999 | 16 | 20 | |
| | 50 | 9.780105 | 28 | 9.878122 | 44 | 0.121878 | 9.901983 | 16 | 10 | |
| * | 4 | 9.780133 | 28 | 9.878165 | 43 | 0.121835 | 9.901967 | 16 | 0 | 56 |
| 28 | 10 | 9.780161 | 28 | 9.878209 | 44 | 0.121791 | 9.901951 | 15 | 50 | |
| 1 2.8 | 20 | 9.780189 | 28 | 9.878253 | 44 | 0.121747 | 9.901936 | 16 | 40 | |
| 2 5.6 | 30 | 9.780216 | 27 | 9.878297 | 44 | 0.121703 | 9.901920 | 16 | 30 | |
| 3 8.4 | 40 | 9.780244 | 28 | 9.878341 | 43 | 0.121659 | 9.901904 | 16 | 20 | |
| 4 11.2 | 50 | 9.780272 | 28 | 9.878384 | 44 | 0.121616 | 9.901888 | 16 | 10 | |
| 5 14.0 | 5 | 9.780300 | 28 | 9.878428 | 44 | 0.121572 | 9.901872 | 16 | 0 | 55 |
| 6 16.8 | 10 | 9.780328 | 28 | 9.878472 | 44 | 0.121528 | 9.901856 | 16 | 50 | |
| 7 19.6 | 20 | 9.780356 | 28 | 9.878516 | 44 | 0.121484 | 9.901840 | 16 | 40 | |
| 8 22.4 | 30 | 9.780384 | 28 | 9.878559 | 43 | 0.121441 | 9.901824 | 16 | 30 | |
| 9 25.2 | 40 | 9.780411 | 27 | 9.878603 | 44 | 0.121397 | 9.901808 | 16 | 20 | |
| | 50 | 9.780439 | 28 | 9.878647 | 44 | 0.121353 | 9.901792 | 16 | 10 | |
| 27 | 6 | 9.780467 | 28 | 9.878691 | 43 | 0.121309 | 9.901776 | 16 | 0 | 54 |
| 1 2.7 | 10 | 9.780495 | 28 | 9.878734 | 44 | 0.121266 | 9.901760 | 15 | 50 | |
| 2 5.4 | 20 | 9.780523 | 28 | 9.878778 | 44 | 0.121222 | 9.901745 | 16 | 40 | |
| 3 8.1 | 30 | 9.780551 | 28 | 9.878822 | 44 | 0.121178 | 9.901729 | 16 | 30 | |
| 4 10.8 | 40 | 9.780578 | 27 | 9.878866 | 44 | 0.121134 | 9.901713 | 16 | 20 | |
| 5 13.5 | 50 | 9.780606 | 28 | 9.878910 | 43 | 0.121091 | 9.901697 | 16 | 10 | |
| 6 16.2 | 7 | 9.780634 | 28 | 9.878953 | 44 | 0.121047 | 9.901681 | 16 | 0 | 53 |
| 7 18.9 | 10 | 9.780662 | 28 | 9.878997 | 44 | 0.121003 | 9.901665 | 16 | 50 | |
| 8 21.6 | 20 | 9.780690 | 28 | 9.879041 | 44 | 0.120959 | 9.901649 | 16 | 40 | |
| 9 24.3 | 30 | 9.780718 | 28 | 9.879085 | 44 | 0.120915 | 9.901633 | 16 | 30 | |
| | 40 | 9.780745 | 27 | 9.879128 | 43 | 0.120872 | 9.901617 | 16 | 20 | |
| | 50 | 9.780773 | 28 | 9.879172 | 44 | 0.120828 | 9.901601 | 16 | 10 | |
| * | 8 | 9.780801 | 28 | 9.879216 | 44 | 0.120784 | 9.901585 | 16 | 0 | 52 |
| 15 | 10 | 9.780829 | 28 | 9.879260 | 44 | 0.120740 | 9.901569 | 16 | 50 | |
| 1 1.5 | 20 | 9.780857 | 28 | 9.879303 | 43 | 0.120697 | 9.901553 | 16 | 40 | |
| 2 3.0 | 30 | 9.780884 | 27 | 9.879347 | 44 | 0.120653 | 9.901537 | 16 | 30 | |
| 3 4.5 | 40 | 9.780912 | 28 | 9.879391 | 44 | 0.120609 | 9.901521 | 16 | 20 | |
| 4 6.0 | 50 | 9.780940 | 28 | 9.879435 | 43 | 0.120565 | 9.901505 | 16 | 10 | |
| 5 7.5 | 9 | 9.780968 | 28 | 9.879478 | 44 | 0.120522 | 9.901490 | 15 | 0 | 51 |
| 6 9.0 | 10 | 9.780996 | 28 | 9.879522 | 44 | 0.120478 | 9.901474 | 16 | 50 | |
| 7 10.5 | 20 | 9.781023 | 27 | 9.879566 | 44 | 0.120434 | 9.901458 | 16 | 40 | |
| 8 12.0 | 30 | 9.781051 | 28 | 9.879609 | 43 | 0.120391 | 9.901442 | 16 | 30 | |
| 9 13.5 | 40 | 9.781079 | 28 | 9.879653 | 44 | 0.120347 | 9.901426 | 16 | 20 | |
| | 50 | 9.781107 | 28 | 9.879697 | 44 | 0.120303 | 9.901410 | 16 | 10 | |
| | 10 | 9.781134 | 27 | 9.879741 | 44 | 0.120259 | 9.901394 | 16 | 0 | 50 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.781134 | 28 | 9.879741 | 43 | 0.120259 | 9.901394 | 16 | 0 | 50 |
| | 10 | 9.781162 | 28 | 9.879784 | 44 | 0.120216 | 9.901378 | 16 | 50 | |
| | 20 | 9.781190 | 28 | 9.879828 | 44 | 0.120172 | 9.901362 | 16 | 40 | |
| | 30 | 9.781218 | 28 | 9.879872 | 44 | 0.120128 | 9.901346 | 16 | 30 | |
| | 40 | 9.781246 | 27 | 9.879916 | 44 | 0.120084 | 9.901330 | 16 | 20 | |
| | 50 | 9.781273 | 28 | 9.879959 | 44 | 0.120041 | 9.901314 | 16 | 10 | |
| 11 | 0 | 9.781301 | 28 | 9.880003 | 44 | 0.119997 | 9.901298 | 16 | 0 | 49 |
| | 10 | 9.781329 | 28 | 9.880047 | 44 | 0.119953 | 9.901282 | 16 | 50 | |
| | 20 | 9.781357 | 27 | 9.880091 | 43 | 0.119909 | 9.901266 | 16 | 40 | |
| | 30 | 9.781384 | 28 | 9.880134 | 44 | 0.119866 | 9.901250 | 16 | 30 | |
| | 40 | 9.781412 | 28 | 9.880178 | 44 | 0.119822 | 9.901234 | 16 | 20 | |
| | 50 | 9.781440 | 28 | 9.880222 | 44 | 0.119778 | 9.901218 | 16 | 10 | |
| 12 | 0 | 9.781468 | 27 | 9.880265 | 43 | 0.119735 | 9.901202 | 16 | 0 | 48 |
| | 10 | 9.781495 | 28 | 9.880309 | 44 | 0.119691 | 9.901186 | 16 | 50 | |
| | 20 | 9.781523 | 28 | 9.880353 | 44 | 0.119647 | 9.901170 | 16 | 40 | |
| | 30 | 9.781551 | 27 | 9.880397 | 43 | 0.119603 | 9.901154 | 16 | 30 | |
| | 40 | 9.781578 | 28 | 9.880440 | 44 | 0.119560 | 9.901138 | 16 | 20 | |
| | 50 | 9.781606 | 28 | 9.880484 | 44 | 0.119516 | 9.901122 | 16 | 10 | |
| 13 | 0 | 9.781634 | 28 | 9.880528 | 44 | 0.119472 | 9.901106 | 16 | 0 | 47 |
| | 10 | 9.781662 | 27 | 9.880571 | 43 | 0.119429 | 9.901090 | 16 | 50 | |
| | 20 | 9.781689 | 28 | 9.880615 | 44 | 0.119385 | 9.901074 | 16 | 40 | |
| | 30 | 9.781717 | 28 | 9.880659 | 44 | 0.119341 | 9.901058 | 16 | 30 | |
| | 40 | 9.781745 | 27 | 9.880703 | 43 | 0.119297 | 9.901042 | 16 | 20 | |
| | 50 | 9.781772 | 28 | 9.880746 | 44 | 0.119254 | 9.901026 | 16 | 10 | |
| 14 | 0 | 9.781800 | 28 | 9.880790 | 44 | 0.119210 | 9.901010 | 16 | 0 | 46 |
| | 10 | 9.781828 | 28 | 9.880834 | 44 | 0.119166 | 9.900994 | 16 | 50 | |
| | 20 | 9.781856 | 27 | 9.880877 | 43 | 0.119123 | 9.900978 | 16 | 40 | |
| | 30 | 9.781883 | 28 | 9.880921 | 44 | 0.119079 | 9.900962 | 16 | 30 | |
| | 40 | 9.781911 | 28 | 9.880965 | 44 | 0.119035 | 9.900946 | 16 | 20 | |
| | 50 | 9.781939 | 27 | 9.881008 | 43 | 0.118992 | 9.900930 | 16 | 10 | |
| 15 | 0 | 9.781966 | 28 | 9.881052 | 44 | 0.118948 | 9.900914 | 16 | 0 | 45 |
| | 10 | 9.781994 | 28 | 9.881096 | 44 | 0.118904 | 9.900898 | 16 | 50 | |
| | 20 | 9.782022 | 27 | 9.881140 | 43 | 0.118860 | 9.900882 | 16 | 40 | |
| | 30 | 9.782049 | 28 | 9.881183 | 44 | 0.118817 | 9.900866 | 16 | 30 | |
| | 40 | 9.782077 | 28 | 9.881227 | 44 | 0.118773 | 9.900850 | 16 | 20 | |
| | 50 | 9.782105 | 27 | 9.881271 | 43 | 0.118729 | 9.900834 | 16 | 10 | |
| 16 | 0 | 9.782132 | 28 | 9.881314 | 44 | 0.118686 | 9.900818 | 16 | 0 | 44 |
| | 10 | 9.782160 | 28 | 9.881358 | 44 | 0.118642 | 9.900802 | 16 | 50 | |
| | 20 | 9.782188 | 27 | 9.881402 | 43 | 0.118598 | 9.900786 | 16 | 40 | |
| | 30 | 9.782215 | 28 | 9.881445 | 44 | 0.118555 | 9.900770 | 16 | 30 | |
| | 40 | 9.782243 | 28 | 9.881489 | 44 | 0.118511 | 9.900754 | 16 | 20 | |
| | 50 | 9.782271 | 27 | 9.881533 | 43 | 0.118467 | 9.900738 | 16 | 10 | |
| 17 | 0 | 9.782298 | 27 | 9.881577 | 44 | 0.118423 | 9.900722 | 16 | 0 | 43 |
| | 10 | 9.782326 | 28 | 9.881620 | 43 | 0.118380 | 9.900706 | 16 | 50 | |
| | 20 | 9.782354 | 28 | 9.881664 | 44 | 0.118336 | 9.900690 | 16 | 40 | |
| | 30 | 9.782381 | 27 | 9.881708 | 43 | 0.118292 | 9.900674 | 16 | 30 | |
| | 40 | 9.782409 | 28 | 9.881751 | 44 | 0.118249 | 9.900658 | 16 | 20 | |
| | 50 | 9.782437 | 27 | 9.881795 | 43 | 0.118205 | 9.900642 | 16 | 10 | |
| 18 | 0 | 9.782464 | 28 | 9.881839 | 44 | 0.118161 | 9.900626 | 16 | 0 | 42 |
| | 10 | 9.782492 | 28 | 9.881882 | 43 | 0.118118 | 9.900610 | 16 | 50 | |
| | 20 | 9.782520 | 27 | 9.881926 | 44 | 0.118074 | 9.900594 | 16 | 40 | |
| | 30 | 9.782547 | 28 | 9.881970 | 44 | 0.118030 | 9.900578 | 16 | 30 | |
| | 40 | 9.782575 | 28 | 9.882013 | 43 | 0.117987 | 9.900562 | 16 | 20 | |
| | 50 | 9.782602 | 27 | 9.882057 | 44 | 0.117943 | 9.900546 | 17 | 10 | |
| 19 | 0 | 9.782630 | 28 | 9.882101 | 44 | 0.117899 | 9.900529 | 16 | 0 | 41 |
| | 10 | 9.782658 | 28 | 9.882144 | 43 | 0.117856 | 9.900513 | 16 | 50 | |
| | 20 | 9.782685 | 27 | 9.882188 | 44 | 0.117812 | 9.900497 | 16 | 40 | |
| | 30 | 9.782713 | 28 | 9.882232 | 44 | 0.117768 | 9.900481 | 16 | 30 | |
| | 40 | 9.782741 | 28 | 9.882275 | 43 | 0.117725 | 9.900465 | 16 | 20 | |
| | 50 | 9.782768 | 27 | 9.882319 | 44 | 0.117681 | 9.900449 | 16 | 10 | |
| 20 | 0 | 9.782796 | 28 | 9.882363 | 44 | 0.117637 | 9.900433 | 16 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

44
 1 4.4
 2 8.8
 3 13.2
 4 17.6
 5 22.0
 6 26.4
 7 30.8
 8 35.2
 9 39.6

 43
 1 4.3
 2 8.6
 3 12.9
 4 17.2
 5 21.5
 6 25.8
 7 30.1
 8 34.4
 9 38.7

 *
 28
 1 2.8
 2 5.6
 3 8.4
 4 11.2
 5 14.0
 6 16.8
 7 19.6
 8 22.4
 9 25.2

 27
 1 2.7
 2 5.4
 3 8.1
 4 10.8
 5 13.5
 6 16.2
 7 18.9
 8 21.6
 9 24.3

 *
 16
 1 1.6
 2 3.2
 3 4.8
 4 6.4
 5 8.0
 6 9.6
 7 11.2
 8 12.8
 9 14.4

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|----------|----------|----------|----------|----------|----------|----------|----|---|----|
| 44 | 20 | 0 | 9.782796 | 27 | 9.882363 | 43 | 0.117637 | 9.900433 | 16 | 0 | 40 |
| 1 4.4 | 10 | 9.782823 | 28 | 9.882406 | 44 | 0.117594 | 9.900417 | 16 | 50 | | |
| 2 8.8 | 20 | 9.782851 | 28 | 9.882450 | 44 | 0.117550 | 9.900401 | 16 | 40 | | |
| 3 13.2 | 30 | 9.782879 | 27 | 9.882494 | 44 | 0.117506 | 9.900385 | 16 | 30 | | |
| 4 17.6 | 40 | 9.782906 | 28 | 9.882537 | 44 | 0.117463 | 9.900369 | 16 | 20 | | |
| 5 22.0 | 50 | 9.782934 | 27 | 9.882581 | 44 | 0.117419 | 9.900353 | 16 | 10 | | |
| 6 26.4 | 21 | 0 | 9.782961 | 28 | 9.882625 | 44 | 0.117375 | 9.900337 | 16 | 0 | 39 |
| 7 30.8 | 10 | 9.782989 | 28 | 9.882668 | 43 | 0.117332 | 9.900321 | 16 | 50 | | |
| 8 35.2 | 20 | 9.783017 | 28 | 9.882712 | 44 | 0.117288 | 9.900305 | 16 | 40 | | |
| 9 39.6 | 30 | 9.783044 | 27 | 9.882756 | 44 | 0.117244 | 9.900289 | 16 | 30 | | |
| | 40 | 9.783072 | 28 | 9.882799 | 43 | 0.117201 | 9.900272 | 17 | 20 | | |
| | 50 | 9.783099 | 27 | 9.882843 | 44 | 0.117157 | 9.900256 | 16 | 10 | | |
| 43 | 22 | 0 | 9.783127 | 28 | 9.882887 | 44 | 0.117113 | 9.900240 | 16 | 0 | 38 |
| 1 4.3 | 10 | 9.783154 | 28 | 9.882930 | 43 | 0.117070 | 9.900224 | 16 | 50 | | |
| 2 8.6 | 20 | 9.783182 | 28 | 9.882974 | 44 | 0.117026 | 9.900208 | 16 | 40 | | |
| 3 12.9 | 30 | 9.783210 | 28 | 9.883018 | 44 | 0.116982 | 9.900192 | 16 | 30 | | |
| 4 17.2 | 40 | 9.783237 | 27 | 9.883061 | 43 | 0.116939 | 9.900176 | 16 | 20 | | |
| 5 21.5 | 50 | 9.783265 | 28 | 9.883105 | 44 | 0.116895 | 9.900160 | 16 | 10 | | |
| 6 25.8 | 23 | 0 | 9.783292 | 28 | 9.883148 | 43 | 0.116852 | 9.900144 | 16 | 0 | 37 |
| 7 30.1 | 10 | 9.783320 | 27 | 9.883192 | 44 | 0.116808 | 9.900128 | 16 | 50 | | |
| 8 34.4 | 20 | 9.783347 | 28 | 9.883236 | 44 | 0.116764 | 9.900112 | 16 | 40 | | |
| 9 38.7 | 30 | 9.783375 | 28 | 9.883279 | 43 | 0.116721 | 9.900096 | 16 | 30 | | |
| * | 40 | 9.783402 | 27 | 9.883323 | 44 | 0.116677 | 9.900079 | 17 | 20 | | |
| | 50 | 9.783430 | 28 | 9.883367 | 44 | 0.116633 | 9.900063 | 16 | 10 | | |
| | 24 | 0 | 9.783458 | 28 | 9.883410 | 43 | 0.116590 | 9.900047 | 16 | 0 | 36 |
| 28 | 10 | 9.783485 | 28 | 9.883454 | 44 | 0.116546 | 9.900031 | 16 | 50 | | |
| 1 2.8 | 20 | 9.783513 | 28 | 9.883498 | 44 | 0.116502 | 9.900015 | 16 | 40 | | |
| 2 5.6 | 30 | 9.783540 | 27 | 9.883541 | 43 | 0.116459 | 9.899999 | 16 | 30 | | |
| 3 8.4 | 40 | 9.783568 | 28 | 9.883585 | 44 | 0.116415 | 9.899983 | 16 | 20 | | |
| 4 11.2 | 50 | 9.783595 | 27 | 9.883628 | 43 | 0.116372 | 9.899967 | 16 | 10 | | |
| 5 14.0 | 25 | 0 | 9.783623 | 27 | 9.883672 | 44 | 0.116328 | 9.899951 | 16 | 0 | 35 |
| 6 16.8 | 10 | 9.783650 | 28 | 9.883716 | 44 | 0.116284 | 9.899935 | 17 | 50 | | |
| 7 19.6 | 20 | 9.783678 | 28 | 9.883759 | 43 | 0.116241 | 9.899918 | 17 | 40 | | |
| 8 22.4 | 30 | 9.783705 | 27 | 9.883803 | 44 | 0.116197 | 9.899902 | 16 | 30 | | |
| 9 25.2 | 40 | 9.783733 | 28 | 9.883847 | 44 | 0.116153 | 9.899886 | 16 | 20 | | |
| | 50 | 9.783760 | 27 | 9.883890 | 43 | 0.116110 | 9.899870 | 16 | 10 | | |
| 27 | 26 | 0 | 9.783788 | 28 | 9.883934 | 44 | 0.116066 | 9.899854 | 16 | 0 | 34 |
| 1 2.7 | 10 | 9.783815 | 27 | 9.883977 | 43 | 0.116023 | 9.899838 | 16 | 50 | | |
| 2 5.4 | 20 | 9.783843 | 28 | 9.884021 | 44 | 0.115979 | 9.899822 | 16 | 40 | | |
| 3 8.1 | 30 | 9.783870 | 27 | 9.884065 | 44 | 0.115935 | 9.899806 | 16 | 30 | | |
| 4 10.8 | 40 | 9.783898 | 28 | 9.884108 | 43 | 0.115892 | 9.899789 | 17 | 20 | | |
| 5 13.5 | 50 | 9.783925 | 27 | 9.884152 | 44 | 0.115848 | 9.899773 | 16 | 10 | | |
| 6 16.2 | 27 | 0 | 9.783953 | 28 | 9.884196 | 44 | 0.115804 | 9.899757 | 16 | 0 | 33 |
| 7 18.9 | 10 | 9.783980 | 27 | 9.884239 | 43 | 0.115761 | 9.899741 | 16 | 50 | | |
| 8 21.6 | 20 | 9.784008 | 28 | 9.884283 | 44 | 0.115717 | 9.899725 | 16 | 40 | | |
| 9 24.3 | 30 | 9.784035 | 27 | 9.884326 | 43 | 0.115674 | 9.899709 | 16 | 30 | | |
| | 40 | 9.784063 | 28 | 9.884370 | 44 | 0.115630 | 9.899693 | 16 | 20 | | |
| | 50 | 9.784090 | 27 | 9.884414 | 44 | 0.115586 | 9.899677 | 16 | 10 | | |
| * | 28 | 0 | 9.784118 | 28 | 9.884457 | 43 | 0.115543 | 9.899660 | 17 | 0 | 32 |
| 16 | 10 | 9.784145 | 27 | 9.884501 | 44 | 0.115499 | 9.899644 | 16 | 50 | | |
| 1 1.6 | 20 | 9.784173 | 28 | 9.884544 | 43 | 0.115456 | 9.899628 | 16 | 40 | | |
| 2 3.2 | 30 | 9.784200 | 27 | 9.884588 | 44 | 0.115412 | 9.899612 | 16 | 30 | | |
| 3 4.8 | 40 | 9.784228 | 28 | 9.884632 | 44 | 0.115368 | 9.899596 | 16 | 20 | | |
| 4 6.4 | 50 | 9.784255 | 27 | 9.884675 | 43 | 0.115325 | 9.899580 | 16 | 10 | | |
| 5 8.0 | 29 | 0 | 9.784282 | 28 | 9.884719 | 44 | 0.115281 | 9.899564 | 16 | 0 | 31 |
| 6 9.6 | 10 | 9.784310 | 28 | 9.884762 | 43 | 0.115238 | 9.899547 | 17 | 50 | | |
| 7 11.2 | 20 | 9.784337 | 27 | 9.884806 | 44 | 0.115194 | 9.899531 | 16 | 40 | | |
| 8 12.8 | 30 | 9.784365 | 28 | 9.884850 | 44 | 0.115150 | 9.899515 | 16 | 30 | | |
| 9 14.4 | 40 | 9.784392 | 27 | 9.884893 | 43 | 0.115107 | 9.899499 | 16 | 20 | | |
| | 50 | 9.784420 | 28 | 9.884937 | 44 | 0.115063 | 9.899483 | 16 | 10 | | |
| | 30 | 0 | 9.784447 | 27 | 9.884980 | 43 | 0.115020 | 9.899467 | 16 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|-------|
| 30 | 0 | 9.784447 | 28 | 9.884980 | 44 | 0.115020 | 9.899467 | 17 | 0 | 30 |
| | 10 | 9.784475 | 27 | 9.885024 | 44 | 0.114976 | 9.899450 | 16 | 50 | 44 |
| | 20 | 9.784502 | 27 | 9.885068 | 44 | 0.114932 | 9.899434 | 16 | 40 | 1.44 |
| | 30 | 9.784529 | 28 | 9.885111 | 43 | 0.114889 | 9.899418 | 16 | 30 | 2.88 |
| | 40 | 9.784557 | 27 | 9.885155 | 44 | 0.114845 | 9.899402 | 16 | 20 | 3.32 |
| | 50 | 9.784584 | 28 | 9.885198 | 43 | 0.114801 | 9.899386 | 16 | 10 | 4.76 |
| | | | | | | | | 16 | 0 | 5.20 |
| 31 | 0 | 9.784612 | 27 | 9.885242 | 44 | 0.114757 | 9.899370 | 16 | 0 | 29 |
| | 10 | 9.784639 | 28 | 9.885286 | 44 | 0.114713 | 9.899354 | 17 | 50 | 0.264 |
| | 20 | 9.784667 | 27 | 9.885329 | 43 | 0.114671 | 9.899337 | 16 | 40 | 3.508 |
| | 30 | 9.784694 | 27 | 9.885373 | 44 | 0.114627 | 9.899321 | 16 | 30 | 8.352 |
| | 40 | 9.784721 | 28 | 9.885416 | 43 | 0.114584 | 9.899305 | 16 | 20 | 9.596 |
| | 50 | 9.784749 | 27 | 9.885460 | 44 | 0.114540 | 9.899289 | 16 | 10 | |
| | | | | | | | | 16 | 0 | |
| 32 | 0 | 9.784776 | 28 | 9.885504 | 43 | 0.114496 | 9.899273 | 17 | 0 | 28 |
| | 10 | 9.784804 | 27 | 9.885547 | 44 | 0.114453 | 9.899256 | 16 | 50 | 1.43 |
| | 20 | 9.784831 | 27 | 9.885591 | 44 | 0.114409 | 9.899240 | 16 | 40 | 2.86 |
| | 30 | 9.784858 | 28 | 9.885634 | 43 | 0.114366 | 9.899224 | 16 | 30 | 3.29 |
| | 40 | 9.784886 | 27 | 9.885678 | 44 | 0.114322 | 9.899208 | 16 | 20 | 4.72 |
| | 50 | 9.784913 | 28 | 9.885721 | 43 | 0.114279 | 9.899192 | 16 | 10 | 5.25 |
| | | | | | | | | 16 | 0 | 6.258 |
| 33 | 0 | 9.784941 | 27 | 9.885765 | 44 | 0.114235 | 9.899176 | 17 | 0 | 27 |
| | 10 | 9.784968 | 27 | 9.885809 | 44 | 0.114191 | 9.899159 | 16 | 50 | 7.301 |
| | 20 | 9.784995 | 28 | 9.885852 | 43 | 0.114148 | 9.899143 | 16 | 40 | 8.344 |
| | 30 | 9.785023 | 27 | 9.885896 | 44 | 0.114104 | 9.899127 | 16 | 30 | 9.587 |
| | 40 | 9.785050 | 28 | 9.885939 | 43 | 0.114061 | 9.899111 | 16 | 20 | |
| | 50 | 9.785078 | 27 | 9.885983 | 44 | 0.114017 | 9.899095 | 16 | 10 | * |
| | | | | | | | | 16 | 0 | |
| 34 | 0 | 9.785105 | 27 | 9.886026 | 43 | 0.113974 | 9.899078 | 17 | 0 | 26 |
| | 10 | 9.785132 | 28 | 9.886070 | 44 | 0.113930 | 9.899062 | 16 | 50 | 2.8 |
| | 20 | 9.785160 | 27 | 9.886114 | 44 | 0.113886 | 9.899046 | 16 | 40 | 1.28 |
| | 30 | 9.785187 | 27 | 9.886157 | 43 | 0.113843 | 9.899030 | 16 | 30 | 2.56 |
| | 40 | 9.785214 | 28 | 9.886201 | 44 | 0.113799 | 9.899014 | 16 | 20 | 3.84 |
| | 50 | 9.785242 | 27 | 9.886244 | 43 | 0.113756 | 9.898997 | 17 | 10 | 4.12 |
| | | | | | | | | 16 | 0 | 5.140 |
| 35 | 0 | 9.785269 | 27 | 9.886288 | 43 | 0.113712 | 9.898981 | 16 | 0 | 25 |
| | 10 | 9.785296 | 28 | 9.886331 | 44 | 0.113669 | 9.898965 | 16 | 50 | 6.168 |
| | 20 | 9.785324 | 27 | 9.886375 | 44 | 0.113625 | 9.898949 | 16 | 40 | 7.196 |
| | 30 | 9.785351 | 27 | 9.886419 | 44 | 0.113581 | 9.898933 | 16 | 30 | 8.224 |
| | 40 | 9.785378 | 28 | 9.886462 | 43 | 0.113538 | 9.898916 | 17 | 20 | 9.252 |
| | 50 | 9.785406 | 27 | 9.886506 | 44 | 0.113494 | 9.898900 | 16 | 10 | |
| | | | | | | | | 16 | 0 | |
| 36 | 0 | 9.785433 | 28 | 9.886549 | 43 | 0.113451 | 9.898884 | 16 | 0 | 24 |
| | 10 | 9.785461 | 27 | 9.886593 | 44 | 0.113407 | 9.898868 | 16 | 50 | 2.7 |
| | 20 | 9.785488 | 27 | 9.886636 | 43 | 0.113364 | 9.898852 | 16 | 40 | 3.54 |
| | 30 | 9.785515 | 28 | 9.886680 | 44 | 0.113320 | 9.898835 | 17 | 30 | 3.81 |
| | 40 | 9.785543 | 27 | 9.886723 | 43 | 0.113277 | 9.898819 | 16 | 20 | 4.108 |
| | 50 | 9.785570 | 27 | 9.886767 | 44 | 0.113233 | 9.898803 | 16 | 10 | 5.135 |
| | | | | | | | | 16 | 0 | 6.162 |
| 37 | 0 | 9.785597 | 27 | 9.886811 | 44 | 0.113189 | 9.898787 | 17 | 0 | 23 |
| | 10 | 9.785624 | 28 | 9.886854 | 43 | 0.113146 | 9.898770 | 16 | 50 | 7.189 |
| | 20 | 9.785652 | 27 | 9.886898 | 44 | 0.113102 | 9.898754 | 16 | 40 | 8.216 |
| | 30 | 9.785679 | 27 | 9.886941 | 43 | 0.113059 | 9.898738 | 16 | 30 | 9.243 |
| | 40 | 9.785706 | 28 | 9.886985 | 44 | 0.113015 | 9.898722 | 16 | 20 | |
| | 50 | 9.785734 | 27 | 9.887028 | 43 | 0.112972 | 9.898706 | 16 | 10 | * |
| | | | | | | | | 17 | 0 | |
| 38 | 0 | 9.785761 | 27 | 9.887072 | 44 | 0.112928 | 9.898689 | 16 | 0 | 22 |
| | 10 | 9.785788 | 28 | 9.887115 | 43 | 0.112885 | 9.898673 | 16 | 50 | 1.7 |
| | 20 | 9.785816 | 27 | 9.887159 | 44 | 0.112841 | 9.898657 | 16 | 40 | 2.34 |
| | 30 | 9.785843 | 27 | 9.887202 | 43 | 0.112798 | 9.898641 | 16 | 30 | 3.51 |
| | 40 | 9.785870 | 28 | 9.887246 | 44 | 0.112754 | 9.898624 | 17 | 20 | 4.68 |
| | 50 | 9.785898 | 27 | 9.887289 | 43 | 0.112711 | 9.898608 | 16 | 10 | 5.85 |
| | | | | | | | | 16 | 0 | 6.102 |
| 39 | 0 | 9.785925 | 27 | 9.887333 | 44 | 0.112667 | 9.898592 | 16 | 0 | 21 |
| | 10 | 9.785952 | 28 | 9.887377 | 43 | 0.112623 | 9.898576 | 16 | 50 | 7.119 |
| | 20 | 9.785979 | 27 | 9.887420 | 44 | 0.112580 | 9.898559 | 17 | 40 | 8.136 |
| | 30 | 9.786007 | 28 | 9.887464 | 43 | 0.112536 | 9.898543 | 16 | 30 | 9.153 |
| | 40 | 9.786034 | 27 | 9.887507 | 44 | 0.112493 | 9.898527 | 16 | 20 | |
| | 50 | 9.786061 | 27 | 9.887551 | 43 | 0.112449 | 9.898511 | 16 | 10 | |
| | | | | | | | | 17 | 0 | |
| 40 | 0 | 9.786089 | 28 | 9.887594 | 43 | 0.112406 | 9.898494 | 17 | 0 | 20 |
| | | | | | | | | | | |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 44 | 0 | 9.786089 | 27 | 9.887594 | 44 | 0.112406 | 9.898494 | 16 | 0 | 20 |
| 1 4.4 | 10 | 9.786116 | 27 | 9.887638 | 43 | 0.112362 | 9.898478 | 16 | 50 | |
| 2 8.8 | 20 | 9.786143 | 27 | 9.887681 | 43 | 0.112319 | 9.898462 | 16 | 40 | |
| 3 13.2 | 30 | 9.786170 | 27 | 9.887725 | 44 | 0.112275 | 9.898446 | 17 | 30 | |
| 4 17.6 | 40 | 9.786198 | 28 | 9.887768 | 44 | 0.112232 | 9.898429 | 16 | 20 | |
| 5 22.0 | 50 | 9.786225 | 27 | 9.887812 | 44 | 0.112188 | 9.898413 | 16 | 10 | |
| 6 26.4 | 41 | 0 | 27 | 9.887855 | 43 | 0.112145 | 9.898397 | 16 | 0 | 19 |
| 7 30.8 | 10 | 9.786279 | 28 | 9.887899 | 43 | 0.112101 | 9.898381 | 17 | 50 | |
| 8 35.2 | 20 | 9.786307 | 27 | 9.887942 | 43 | 0.112058 | 9.898364 | 17 | 40 | |
| 9 39.6 | 30 | 9.786334 | 27 | 9.887986 | 44 | 0.112014 | 9.898348 | 16 | 30 | |
| | 40 | 9.786361 | 27 | 9.888029 | 44 | 0.111971 | 9.898332 | 17 | 20 | |
| | 50 | 9.786388 | 28 | 9.888073 | 44 | 0.111927 | 9.898315 | 16 | 10 | |
| 43 | 42 | 0 | 27 | 9.888116 | 43 | 0.111884 | 9.898299 | 16 | 0 | 18 |
| 1 4.3 | 10 | 9.786443 | 27 | 9.888160 | 43 | 0.111840 | 9.898283 | 16 | 50 | |
| 2 8.6 | 20 | 9.786470 | 27 | 9.888203 | 43 | 0.111797 | 9.898267 | 16 | 40 | |
| 3 12.9 | 30 | 9.786497 | 27 | 9.888247 | 44 | 0.111753 | 9.898250 | 17 | 30 | |
| 4 17.2 | 40 | 9.786525 | 28 | 9.888291 | 44 | 0.111709 | 9.898234 | 16 | 20 | |
| 5 21.5 | 50 | 9.786552 | 27 | 9.888334 | 43 | 0.111666 | 9.898218 | 16 | 10 | |
| 6 25.8 | 43 | 0 | 27 | 9.888378 | 44 | 0.111622 | 9.898202 | 17 | 0 | 17 |
| 7 30.1 | 10 | 9.786579 | 27 | 9.888421 | 43 | 0.111579 | 9.898185 | 16 | 50 | |
| 8 34.4 | 20 | 9.786606 | 28 | 9.888465 | 44 | 0.111535 | 9.898169 | 16 | 40 | |
| 9 38.7 | 30 | 9.786634 | 27 | 9.888508 | 43 | 0.111492 | 9.898153 | 17 | 30 | |
| | 40 | 9.786688 | 27 | 9.888552 | 44 | 0.111448 | 9.898136 | 17 | 20 | |
| | 50 | 9.786715 | 27 | 9.888595 | 43 | 0.111405 | 9.898120 | 16 | 10 | |
| * | 44 | 0 | 28 | 9.888639 | 44 | 0.111361 | 9.898104 | 16 | 0 | 16 |
| 18 | 10 | 9.786770 | 27 | 9.888682 | 44 | 0.111318 | 9.898088 | 17 | 50 | |
| 1 2.8 | 20 | 9.786797 | 27 | 9.888726 | 44 | 0.111274 | 9.898071 | 17 | 40 | |
| 2 5.6 | 30 | 9.786824 | 27 | 9.888769 | 43 | 0.111231 | 9.898055 | 16 | 30 | |
| 3 8.4 | 40 | 9.786851 | 27 | 9.888813 | 44 | 0.111187 | 9.898039 | 16 | 20 | |
| 4 11.2 | 50 | 9.786878 | 27 | 9.888856 | 43 | 0.111144 | 9.898022 | 17 | 10 | |
| 5 14.0 | 45 | 0 | 27 | 9.888900 | 44 | 0.111100 | 9.898006 | 16 | 0 | 15 |
| 6 16.8 | 10 | 9.786933 | 27 | 9.888943 | 43 | 0.111057 | 9.897990 | 17 | 50 | |
| 7 19.6 | 20 | 9.786960 | 27 | 9.888987 | 44 | 0.111013 | 9.897973 | 16 | 40 | |
| 8 22.4 | 30 | 9.786987 | 27 | 9.889030 | 43 | 0.110970 | 9.897957 | 16 | 30 | |
| 9 25.2 | 40 | 9.787014 | 27 | 9.889074 | 44 | 0.110926 | 9.897941 | 16 | 20 | |
| | 50 | 9.787042 | 28 | 9.889117 | 43 | 0.110883 | 9.897924 | 17 | 10 | |
| 27 | 46 | 0 | 27 | 9.889161 | 44 | 0.110839 | 9.897908 | 16 | 0 | 14 |
| 1 2.7 | 10 | 9.787096 | 27 | 9.889204 | 43 | 0.110796 | 9.897892 | 16 | 50 | |
| 2 5.4 | 20 | 9.787123 | 27 | 9.889248 | 44 | 0.110752 | 9.897876 | 16 | 40 | |
| 3 8.1 | 30 | 9.787150 | 27 | 9.889291 | 43 | 0.110709 | 9.897859 | 17 | 30 | |
| 4 10.8 | 40 | 9.787177 | 27 | 9.889334 | 44 | 0.110666 | 9.897843 | 16 | 20 | |
| 5 13.5 | 50 | 9.787205 | 28 | 9.889378 | 44 | 0.110622 | 9.897827 | 16 | 10 | |
| 6 16.2 | 47 | 0 | 27 | 9.889421 | 43 | 0.110579 | 9.897810 | 17 | 0 | 13 |
| 7 18.9 | 10 | 9.787259 | 27 | 9.889465 | 44 | 0.110535 | 9.897794 | 16 | 50 | |
| 8 21.6 | 20 | 9.787286 | 27 | 9.889508 | 43 | 0.110492 | 9.897778 | 16 | 40 | |
| 9 24.3 | 30 | 9.787313 | 27 | 9.889552 | 44 | 0.110448 | 9.897761 | 17 | 30 | |
| | 40 | 9.787340 | 27 | 9.889595 | 43 | 0.110405 | 9.897745 | 16 | 20 | |
| | 50 | 9.787367 | 27 | 9.889639 | 44 | 0.110361 | 9.897729 | 16 | 10 | |
| * | 48 | 0 | 28 | 9.889682 | 43 | 0.110318 | 9.897712 | 17 | 0 | 12 |
| 16 | 10 | 9.787422 | 27 | 9.889726 | 44 | 0.110274 | 9.897696 | 16 | 50 | |
| 1 1.6 | 20 | 9.787449 | 27 | 9.889769 | 43 | 0.110231 | 9.897680 | 16 | 40 | |
| 2 3.2 | 30 | 9.787476 | 27 | 9.889813 | 44 | 0.110187 | 9.897663 | 17 | 30 | |
| 3 4.8 | 40 | 9.787503 | 27 | 9.889856 | 43 | 0.110144 | 9.897647 | 16 | 20 | |
| 4 6.4 | 50 | 9.787530 | 27 | 9.889900 | 44 | 0.110100 | 9.897631 | 16 | 10 | |
| 5 8.0 | 49 | 0 | 27 | 9.889943 | 43 | 0.110057 | 9.897614 | 17 | 0 | 11 |
| 6 9.6 | 10 | 9.787585 | 27 | 9.889987 | 44 | 0.110013 | 9.897598 | 16 | 50 | |
| 7 11.2 | 20 | 9.787612 | 27 | 9.890030 | 43 | 0.109970 | 9.897582 | 16 | 40 | |
| 8 12.8 | 30 | 9.787639 | 27 | 9.890074 | 44 | 0.109926 | 9.897565 | 17 | 30 | |
| 9 14.4 | 40 | 9.787666 | 27 | 9.890117 | 43 | 0.109883 | 9.897549 | 16 | 20 | |
| | 50 | 9.787693 | 27 | 9.890160 | 43 | 0.109840 | 9.897533 | 16 | 10 | |
| | 50 | 0 | 27 | 9.890204 | 44 | 0.109796 | 9.897516 | 17 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.787720 | 27 | 9.890204 | 43 | 0.109753 | 9.897500 | 16 | 0 | 10 |
| | 10 | 9.787747 | 27 | 9.890247 | 44 | 0.109709 | 9.897483 | 17 | 50 | |
| | 20 | 9.787774 | 27 | 9.890291 | 44 | 0.109666 | 9.897467 | 16 | 40 | |
| | 30 | 9.787801 | 27 | 9.890334 | 44 | 0.109622 | 9.897451 | 16 | 30 | |
| | 40 | 9.787829 | 27 | 9.890378 | 43 | 0.109579 | 9.897434 | 17 | 20 | |
| | 50 | 9.787856 | 27 | 9.890421 | 43 | 0.109535 | 9.897418 | 16 | 10 | |
| 51 | 0 | 9.787883 | 27 | 9.890465 | 44 | 0.109492 | 9.897402 | 16 | 0 | 9 |
| | 10 | 9.787910 | 27 | 9.890508 | 44 | 0.109448 | 9.897385 | 17 | 50 | |
| | 20 | 9.787937 | 27 | 9.890552 | 44 | 0.109405 | 9.897369 | 16 | 40 | |
| | 30 | 9.787964 | 27 | 9.890595 | 43 | 0.109361 | 9.897353 | 16 | 30 | |
| | 40 | 9.787991 | 27 | 9.890639 | 43 | 0.109318 | 9.897336 | 17 | 20 | |
| | 50 | 9.788018 | 27 | 9.890682 | 43 | 0.109275 | 9.897320 | 16 | 10 | |
| 52 | 0 | 9.788045 | 27 | 9.890725 | 44 | 0.109231 | 9.897303 | 17 | 0 | 8 |
| | 10 | 9.788072 | 27 | 9.890769 | 43 | 0.109188 | 9.897287 | 16 | 50 | |
| | 20 | 9.788099 | 27 | 9.890812 | 43 | 0.109144 | 9.897271 | 16 | 40 | |
| | 30 | 9.788127 | 27 | 9.890856 | 44 | 0.109101 | 9.897254 | 17 | 30 | |
| | 40 | 9.788154 | 27 | 9.890899 | 44 | 0.109057 | 9.897238 | 16 | 20 | |
| | 50 | 9.788181 | 27 | 9.890943 | 43 | 0.109014 | 9.897222 | 17 | 10 | |
| 53 | 0 | 9.788208 | 27 | 9.890986 | 44 | 0.108970 | 9.897205 | 16 | 0 | 7 |
| | 10 | 9.788235 | 27 | 9.891030 | 43 | 0.108927 | 9.897189 | 16 | 50 | |
| | 20 | 9.788262 | 27 | 9.891073 | 43 | 0.108884 | 9.897172 | 17 | 40 | |
| | 30 | 9.788289 | 27 | 9.891116 | 44 | 0.108840 | 9.897156 | 16 | 30 | |
| | 40 | 9.788316 | 27 | 9.891160 | 44 | 0.108797 | 9.897140 | 17 | 20 | |
| | 50 | 9.788343 | 27 | 9.891203 | 43 | 0.108753 | 9.897123 | 16 | 10 | |
| 54 | 0 | 9.788370 | 27 | 9.891247 | 43 | 0.108710 | 9.897107 | 17 | 0 | 6 |
| | 10 | 9.788397 | 27 | 9.891290 | 44 | 0.108666 | 9.897090 | 16 | 50 | |
| | 20 | 9.788424 | 27 | 9.891334 | 43 | 0.108623 | 9.897074 | 17 | 40 | |
| | 30 | 9.788451 | 27 | 9.891377 | 44 | 0.108579 | 9.897058 | 16 | 30 | |
| | 40 | 9.788478 | 27 | 9.891421 | 44 | 0.108536 | 9.897041 | 17 | 20 | |
| | 50 | 9.788505 | 27 | 9.891464 | 43 | 0.108493 | 9.897025 | 16 | 10 | |
| 55 | 0 | 9.788532 | 27 | 9.891507 | 44 | 0.108449 | 9.897009 | 17 | 0 | 5 |
| | 10 | 9.788559 | 27 | 9.891551 | 43 | 0.108406 | 9.896992 | 16 | 50 | |
| | 20 | 9.788586 | 27 | 9.891594 | 44 | 0.108362 | 9.896976 | 17 | 40 | |
| | 30 | 9.788613 | 27 | 9.891638 | 44 | 0.108319 | 9.896959 | 16 | 30 | |
| | 40 | 9.788640 | 27 | 9.891681 | 43 | 0.108275 | 9.896942 | 17 | 20 | |
| | 50 | 9.788667 | 27 | 9.891725 | 44 | 0.108232 | 9.896926 | 16 | 10 | |
| 56 | 0 | 9.788694 | 27 | 9.891768 | 43 | 0.108189 | 9.896910 | 17 | 0 | 4 |
| | 10 | 9.788721 | 27 | 9.891811 | 44 | 0.108145 | 9.896894 | 16 | 50 | |
| | 20 | 9.788748 | 27 | 9.891855 | 43 | 0.108102 | 9.896877 | 17 | 40 | |
| | 30 | 9.788775 | 27 | 9.891898 | 44 | 0.108058 | 9.896861 | 16 | 30 | |
| | 40 | 9.788802 | 27 | 9.891942 | 43 | 0.108015 | 9.896844 | 17 | 20 | |
| | 50 | 9.788829 | 27 | 9.891985 | 44 | 0.107972 | 9.896828 | 16 | 10 | |
| 57 | 0 | 9.788856 | 27 | 9.892028 | 43 | 0.107928 | 9.896812 | 17 | 0 | 3 |
| | 10 | 9.788883 | 27 | 9.892072 | 44 | 0.107885 | 9.896795 | 16 | 50 | |
| | 20 | 9.788910 | 27 | 9.892115 | 43 | 0.107841 | 9.896779 | 17 | 40 | |
| | 30 | 9.788937 | 27 | 9.892159 | 44 | 0.107798 | 9.896762 | 16 | 30 | |
| | 40 | 9.788964 | 27 | 9.892202 | 43 | 0.107754 | 9.896746 | 17 | 20 | |
| | 50 | 9.788991 | 27 | 9.892246 | 44 | 0.107711 | 9.896729 | 16 | 10 | |
| 58 | 0 | 9.789018 | 27 | 9.892289 | 43 | 0.107668 | 9.896713 | 17 | 0 | 2 |
| | 10 | 9.789045 | 27 | 9.892332 | 44 | 0.107624 | 9.896697 | 16 | 50 | |
| | 20 | 9.789072 | 27 | 9.892376 | 43 | 0.107581 | 9.896680 | 17 | 40 | |
| | 30 | 9.789099 | 27 | 9.892419 | 44 | 0.107537 | 9.896664 | 16 | 30 | |
| | 40 | 9.789126 | 27 | 9.892463 | 43 | 0.107494 | 9.896647 | 17 | 20 | |
| | 50 | 9.789153 | 27 | 9.892506 | 44 | 0.107451 | 9.896631 | 16 | 10 | |
| 59 | 0 | 9.789180 | 27 | 9.892549 | 43 | 0.107407 | 9.896614 | 17 | 0 | 1 |
| | 10 | 9.789207 | 27 | 9.892593 | 44 | 0.107364 | 9.896598 | 16 | 50 | |
| | 20 | 9.789234 | 27 | 9.892636 | 43 | 0.107320 | 9.896581 | 17 | 40 | |
| | 30 | 9.789261 | 27 | 9.892680 | 44 | 0.107277 | 9.896565 | 16 | 30 | |
| | 40 | 9.789288 | 27 | 9.892723 | 43 | 0.107234 | 9.896549 | 17 | 20 | |
| | 50 | 9.789315 | 27 | 9.892766 | 44 | 0.107190 | 9.896532 | 16 | 10 | |
| 60 | 0 | 9.789342 | 27 | 9.892810 | 43 | | | 17 | 0 | 0 |

44
 1 4.4
 2 8.8
 3 13.2
 4 17.6
 5 22.0
 6 26.4
 7 30.8
 8 35.2
 9 39.6
 43
 1 4.3
 2 8.6
 3 12.9
 4 17.2
 5 21.5
 6 25.8
 7 30.1
 8 34.4
 9 38.7
 *
 28
 1 2.8
 2 5.6
 3 8.4
 4 11.2
 5 14.0
 6 16.8
 7 19.6
 8 22.4
 9 25.2
 27
 1 2.7
 2 5.4
 3 8.1
 4 10.8
 5 13.5
 6 16.2
 7 18.9
 8 21.6
 9 24.3
 *
 17
 1 1.7
 2 3.4
 3 5.1
 4 6.8
 5 8.5
 6 10.2
 7 11.9
 8 13.6
 9 15.3

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.789342 | 27 | 9.892810 | 43 | 0.107190 | 9.896532 | 16 | 0 | 60 |
| 1 | 10 | 9.789369 | 27 | 9.892853 | 44 | 0.107147 | 9.896516 | 17 | 50 | |
| 2 | 20 | 9.789396 | 27 | 9.892897 | 43 | 0.107103 | 9.896499 | 16 | 40 | |
| 3 | 30 | 9.789423 | 27 | 9.892940 | 43 | 0.107060 | 9.896483 | 17 | 30 | |
| 4 | 40 | 9.789450 | 27 | 9.892983 | 44 | 0.107017 | 9.896466 | 16 | 20 | |
| 5 | 50 | 9.789477 | 27 | 9.893027 | 43 | 0.106973 | 9.896450 | 17 | 10 | |
| 6 | 0 | 9.789504 | 27 | 9.893070 | 43 | 0.106930 | 9.896433 | 16 | 0 | 59 |
| 7 | 10 | 9.789531 | 26 | 9.893114 | 44 | 0.106887 | 9.896417 | 17 | 50 | |
| 8 | 20 | 9.789557 | 27 | 9.893157 | 43 | 0.106843 | 9.896400 | 16 | 40 | |
| 9 | 30 | 9.789584 | 27 | 9.893200 | 43 | 0.106800 | 9.896384 | 17 | 30 | |
| | 40 | 9.789611 | 27 | 9.893244 | 44 | 0.106756 | 9.896368 | 16 | 20 | |
| | 50 | 9.789638 | 27 | 9.893287 | 43 | 0.106713 | 9.896351 | 17 | 10 | |
| 2 | 0 | 9.789665 | 27 | 9.893331 | 44 | 0.106669 | 9.896335 | 16 | 0 | 58 |
| 1 | 10 | 9.789692 | 27 | 9.893374 | 43 | 0.106626 | 9.896318 | 17 | 50 | |
| 2 | 20 | 9.789719 | 27 | 9.893417 | 44 | 0.106583 | 9.896302 | 16 | 40 | |
| 3 | 30 | 9.789746 | 27 | 9.893461 | 43 | 0.106539 | 9.896285 | 17 | 30 | |
| 4 | 40 | 9.789773 | 27 | 9.893504 | 43 | 0.106496 | 9.896269 | 16 | 20 | |
| 5 | 50 | 9.789800 | 27 | 9.893547 | 44 | 0.106453 | 9.896252 | 17 | 10 | |
| 6 | 0 | 9.789827 | 27 | 9.893591 | 43 | 0.106409 | 9.896236 | 16 | 0 | 57 |
| 7 | 10 | 9.789854 | 26 | 9.893634 | 44 | 0.106366 | 9.896219 | 17 | 50 | |
| 8 | 20 | 9.789880 | 26 | 9.893678 | 43 | 0.106322 | 9.896203 | 16 | 40 | |
| 9 | 30 | 9.789907 | 27 | 9.893721 | 43 | 0.106279 | 9.896186 | 17 | 30 | |
| | 40 | 9.789934 | 27 | 9.893764 | 43 | 0.106236 | 9.896170 | 16 | 20 | |
| | 50 | 9.789961 | 27 | 9.893808 | 44 | 0.106192 | 9.896153 | 17 | 10 | |
| * | 0 | 9.789988 | 27 | 9.893851 | 43 | 0.106149 | 9.896137 | 16 | 0 | 56 |
| 4 | 10 | 9.790015 | 27 | 9.893894 | 43 | 0.106106 | 9.896120 | 17 | 50 | |
| 1 | 20 | 9.790042 | 27 | 9.893938 | 44 | 0.106062 | 9.896104 | 16 | 40 | |
| 2 | 30 | 9.790069 | 27 | 9.893981 | 43 | 0.106019 | 9.896087 | 17 | 30 | |
| 3 | 40 | 9.790096 | 26 | 9.894025 | 44 | 0.105975 | 9.896071 | 16 | 20 | |
| 4 | 50 | 9.790122 | 26 | 9.894068 | 43 | 0.105932 | 9.896054 | 17 | 10 | |
| 5 | 0 | 9.790149 | 27 | 9.894111 | 44 | 0.105889 | 9.896038 | 16 | 0 | 55 |
| 6 | 10 | 9.790176 | 27 | 9.894155 | 43 | 0.105845 | 9.896021 | 17 | 50 | |
| 7 | 20 | 9.790203 | 27 | 9.894198 | 43 | 0.105802 | 9.896005 | 16 | 40 | |
| 8 | 30 | 9.790230 | 27 | 9.894241 | 44 | 0.105759 | 9.895988 | 17 | 30 | |
| 9 | 40 | 9.790257 | 27 | 9.894285 | 43 | 0.105715 | 9.895972 | 16 | 20 | |
| | 50 | 9.790284 | 26 | 9.894328 | 44 | 0.105672 | 9.895955 | 17 | 10 | |
| 6 | 0 | 9.790310 | 26 | 9.894372 | 43 | 0.105628 | 9.895939 | 16 | 0 | 54 |
| 1 | 10 | 9.790337 | 27 | 9.894415 | 43 | 0.105585 | 9.895922 | 17 | 50 | |
| 2 | 20 | 9.790364 | 27 | 9.894458 | 44 | 0.105542 | 9.895906 | 16 | 40 | |
| 3 | 30 | 9.790391 | 27 | 9.894502 | 43 | 0.105498 | 9.895889 | 17 | 30 | |
| 4 | 40 | 9.790418 | 27 | 9.894545 | 43 | 0.105455 | 9.895873 | 16 | 20 | |
| 5 | 50 | 9.790445 | 26 | 9.894588 | 44 | 0.105412 | 9.895856 | 17 | 10 | |
| 7 | 0 | 9.790471 | 26 | 9.894632 | 43 | 0.105368 | 9.895840 | 16 | 0 | 53 |
| 1 | 10 | 9.790498 | 27 | 9.894675 | 43 | 0.105325 | 9.895823 | 17 | 50 | |
| 2 | 20 | 9.790525 | 27 | 9.894718 | 43 | 0.105282 | 9.895807 | 16 | 40 | |
| 3 | 30 | 9.790552 | 27 | 9.894762 | 44 | 0.105238 | 9.895790 | 17 | 30 | |
| 4 | 40 | 9.790579 | 27 | 9.894805 | 43 | 0.105195 | 9.895774 | 16 | 20 | |
| 5 | 50 | 9.790606 | 26 | 9.894848 | 44 | 0.105152 | 9.895757 | 17 | 10 | |
| * | 0 | 9.790632 | 27 | 9.894892 | 43 | 0.105108 | 9.895741 | 16 | 0 | 52 |
| 1 | 10 | 9.790659 | 27 | 9.894935 | 43 | 0.105065 | 9.895724 | 17 | 50 | |
| 2 | 20 | 9.790686 | 27 | 9.894978 | 44 | 0.105021 | 9.895708 | 16 | 40 | |
| 3 | 30 | 9.790713 | 27 | 9.895022 | 43 | 0.104978 | 9.895691 | 17 | 30 | |
| 4 | 40 | 9.790740 | 27 | 9.895065 | 43 | 0.104935 | 9.895675 | 16 | 20 | |
| 5 | 50 | 9.790767 | 26 | 9.895109 | 44 | 0.104891 | 9.895658 | 17 | 10 | |
| 9 | 0 | 9.790793 | 27 | 9.895152 | 43 | 0.104848 | 9.895641 | 16 | 0 | 51 |
| 1 | 10 | 9.790820 | 27 | 9.895195 | 44 | 0.104805 | 9.895625 | 17 | 50 | |
| 2 | 20 | 9.790847 | 27 | 9.895239 | 43 | 0.104761 | 9.895608 | 16 | 40 | |
| 3 | 30 | 9.790874 | 27 | 9.895282 | 43 | 0.104718 | 9.895592 | 17 | 30 | |
| 4 | 40 | 9.790901 | 26 | 9.895325 | 43 | 0.104675 | 9.895575 | 16 | 20 | |
| 5 | 50 | 9.790927 | 26 | 9.895369 | 44 | 0.104631 | 9.895559 | 17 | 10 | |
| 10 | 0 | 9.790954 | 27 | 9.895412 | 43 | 0.104588 | 9.895542 | 16 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.790954 | 27 | 9.895412 | 43 | 0.104588 | 9.895542 | 16 | 0 | 50 |
| | 10 | 9.790981 | 27 | 9.895455 | 44 | 0.104545 | 9.895526 | 17 | 50 | |
| | 20 | 9.791008 | 26 | 9.895499 | 45 | 0.104501 | 9.895509 | 16 | 40 | |
| | 30 | 9.791034 | 27 | 9.895542 | 43 | 0.104458 | 9.895493 | 16 | 50 | |
| | 40 | 9.791061 | 27 | 9.895585 | 43 | 0.104415 | 9.895476 | 17 | 20 | |
| | 50 | 9.791088 | 27 | 9.895629 | 44 | 0.104371 | 9.895459 | 17 | 10 | |
| 11 | 0 | 9.791115 | 27 | 9.895672 | 43 | 0.104328 | 9.895443 | 16 | 0 | 40 |
| | 10 | 9.791142 | 26 | 9.895715 | 44 | 0.104285 | 9.895426 | 17 | 50 | |
| | 20 | 9.791168 | 27 | 9.895759 | 43 | 0.104241 | 9.895410 | 17 | 40 | |
| | 30 | 9.791195 | 27 | 9.895802 | 43 | 0.104198 | 9.895393 | 17 | 30 | |
| | 40 | 9.791222 | 27 | 9.895845 | 43 | 0.104155 | 9.895377 | 16 | 20 | |
| | 50 | 9.791249 | 27 | 9.895889 | 44 | 0.104111 | 9.895360 | 17 | 10 | |
| 12 | 0 | 9.791275 | 26 | 9.895932 | 43 | 0.104068 | 9.895343 | 17 | 0 | 48 |
| | 10 | 9.791302 | 27 | 9.895975 | 43 | 0.104025 | 9.895327 | 16 | 50 | |
| | 20 | 9.791329 | 27 | 9.896019 | 44 | 0.103981 | 9.895310 | 17 | 40 | |
| | 30 | 9.791356 | 27 | 9.896062 | 43 | 0.103938 | 9.895294 | 16 | 30 | |
| | 40 | 9.791382 | 26 | 9.896105 | 43 | 0.103895 | 9.895277 | 17 | 20 | |
| | 50 | 9.791409 | 27 | 9.896149 | 44 | 0.103851 | 9.895261 | 16 | 10 | |
| 13 | 0 | 9.791436 | 27 | 9.896192 | 43 | 0.103808 | 9.895244 | 17 | 0 | 47 |
| | 10 | 9.791463 | 26 | 9.896235 | 43 | 0.103765 | 9.895227 | 16 | 50 | |
| | 20 | 9.791489 | 27 | 9.896278 | 43 | 0.103722 | 9.895211 | 17 | 40 | |
| | 30 | 9.791516 | 27 | 9.896322 | 44 | 0.103678 | 9.895194 | 17 | 30 | |
| | 40 | 9.791543 | 27 | 9.896365 | 43 | 0.103635 | 9.895178 | 16 | 20 | |
| | 50 | 9.791570 | 26 | 9.896408 | 44 | 0.103592 | 9.895161 | 17 | 10 | |
| 14 | 0 | 9.791596 | 27 | 9.896452 | 43 | 0.103548 | 9.895145 | 16 | 0 | 46 |
| | 10 | 9.791623 | 27 | 9.896495 | 43 | 0.103505 | 9.895128 | 17 | 50 | |
| | 20 | 9.791650 | 26 | 9.896538 | 43 | 0.103462 | 9.895111 | 16 | 40 | |
| | 30 | 9.791676 | 27 | 9.896582 | 44 | 0.103418 | 9.895095 | 16 | 30 | |
| | 40 | 9.791703 | 27 | 9.896625 | 43 | 0.103375 | 9.895078 | 17 | 20 | |
| | 50 | 9.791730 | 27 | 9.896668 | 43 | 0.103332 | 9.895062 | 16 | 10 | |
| 15 | 0 | 9.791757 | 26 | 9.896712 | 44 | 0.103288 | 9.895045 | 17 | 0 | 45 |
| | 10 | 9.791783 | 27 | 9.896755 | 43 | 0.103245 | 9.895028 | 16 | 50 | |
| | 20 | 9.791810 | 27 | 9.896798 | 43 | 0.103202 | 9.895012 | 17 | 40 | |
| | 30 | 9.791837 | 26 | 9.896842 | 44 | 0.103158 | 9.894995 | 16 | 30 | |
| | 40 | 9.791863 | 27 | 9.896885 | 43 | 0.103115 | 9.894979 | 17 | 20 | |
| | 50 | 9.791890 | 27 | 9.896928 | 43 | 0.103072 | 9.894962 | 17 | 10 | |
| 16 | 0 | 9.791917 | 26 | 9.896971 | 43 | 0.103029 | 9.894945 | 16 | 0 | 44 |
| | 10 | 9.791943 | 27 | 9.897015 | 44 | 0.102985 | 9.894929 | 16 | 50 | |
| | 20 | 9.791970 | 27 | 9.897058 | 43 | 0.102942 | 9.894912 | 17 | 40 | |
| | 30 | 9.791997 | 27 | 9.897101 | 43 | 0.102899 | 9.894896 | 16 | 30 | |
| | 40 | 9.792024 | 27 | 9.897145 | 44 | 0.102855 | 9.894879 | 17 | 20 | |
| | 50 | 9.792050 | 26 | 9.897188 | 43 | 0.102812 | 9.894862 | 16 | 10 | |
| 17 | 0 | 9.792077 | 27 | 9.897231 | 43 | 0.102769 | 9.894846 | 16 | 0 | 43 |
| | 10 | 9.792104 | 27 | 9.897275 | 44 | 0.102725 | 9.894829 | 17 | 50 | |
| | 20 | 9.792130 | 26 | 9.897318 | 43 | 0.102682 | 9.894812 | 17 | 40 | |
| | 30 | 9.792157 | 27 | 9.897361 | 43 | 0.102639 | 9.894796 | 16 | 30 | |
| | 40 | 9.792184 | 27 | 9.897404 | 43 | 0.102596 | 9.894779 | 17 | 20 | |
| | 50 | 9.792210 | 26 | 9.897448 | 44 | 0.102552 | 9.894763 | 16 | 10 | |
| 18 | 0 | 9.792237 | 27 | 9.897491 | 43 | 0.102509 | 9.894746 | 17 | 0 | 42 |
| | 10 | 9.792264 | 27 | 9.897534 | 43 | 0.102465 | 9.894729 | 17 | 50 | |
| | 20 | 9.792290 | 26 | 9.897578 | 44 | 0.102422 | 9.894713 | 16 | 40 | |
| | 30 | 9.792317 | 27 | 9.897621 | 43 | 0.102379 | 9.894696 | 17 | 30 | |
| | 40 | 9.792343 | 26 | 9.897664 | 43 | 0.102336 | 9.894679 | 16 | 20 | |
| | 50 | 9.792370 | 27 | 9.897707 | 43 | 0.102293 | 9.894663 | 17 | 10 | |
| 19 | 0 | 9.792397 | 27 | 9.897751 | 44 | 0.102249 | 9.894646 | 17 | 0 | 41 |
| | 10 | 9.792423 | 26 | 9.897794 | 43 | 0.102206 | 9.894629 | 17 | 50 | |
| | 20 | 9.792450 | 27 | 9.897837 | 43 | 0.102163 | 9.894613 | 16 | 40 | |
| | 30 | 9.792477 | 27 | 9.897881 | 44 | 0.102119 | 9.894596 | 17 | 30 | |
| | 40 | 9.792503 | 26 | 9.897924 | 43 | 0.102076 | 9.894580 | 16 | 20 | |
| | 50 | 9.792530 | 27 | 9.897967 | 43 | 0.102033 | 9.894563 | 17 | 10 | |
| 20 | 0 | 9.792557 | 27 | 9.898010 | 43 | 0.101990 | 9.894546 | 17 | 0 | 40 |

44
1 4.4
2 8.8
3 13.2
4 17.6
5 22.0
6 26.1
7 30.8
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9 39.6

43
1 4.3
2 8.6
3 12.9
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6 25.8
7 30.1
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27
1 2.7
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4 10.8
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26
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17
1 1.7
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3 5.1
4 6.8
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6 10.2
7 11.9
8 13.6
9 15.3

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | | |
|--------|----|-----|----------|------|----------|------|----------|----------|----|----|----|
| 44 | 20 | 0 | 9.792557 | 26 | 9.898010 | 44 | 0.101990 | 9.894546 | 16 | 0 | 40 |
| 1 4.4 | | 10 | 9.792583 | 27 | 9.898054 | 43 | 0.101946 | 9.894530 | 17 | 50 | |
| 2 8.8 | | 20 | 9.792610 | 26 | 9.898097 | 43 | 0.101903 | 9.894513 | 17 | 40 | |
| 3 13.2 | | 30 | 9.792636 | 27 | 9.898140 | 43 | 0.101860 | 9.894496 | 16 | 30 | |
| 4 17.6 | | 40 | 9.792663 | 27 | 9.898183 | 43 | 0.101817 | 9.894480 | 16 | 20 | |
| 5 22.0 | | 50 | 9.792690 | 27 | 9.898227 | 44 | 0.101773 | 9.894463 | 17 | 10 | |
| 6 26.4 | 21 | 0 | 9.792716 | 27 | 9.898270 | 43 | 0.101730 | 9.894446 | 16 | 0 | 39 |
| 7 30.8 | | 10 | 9.792743 | 27 | 9.898313 | 43 | 0.101687 | 9.894430 | 17 | 50 | |
| 8 35.2 | | 20 | 9.792770 | 27 | 9.898357 | 43 | 0.101643 | 9.894413 | 17 | 40 | |
| 9 39.6 | | 30 | 9.792796 | 26 | 9.898400 | 43 | 0.101600 | 9.894396 | 17 | 30 | |
| | | 40 | 9.792823 | 27 | 9.898443 | 43 | 0.101557 | 9.894380 | 16 | 20 | |
| | | 50 | 9.792849 | 26 | 9.898486 | 43 | 0.101514 | 9.894363 | 17 | 10 | |
| 43 | 22 | 0 | 9.792876 | 27 | 9.898530 | 44 | 0.101470 | 9.894346 | 16 | 0 | 38 |
| 1 4.3 | | 10 | 9.792903 | 27 | 9.898573 | 43 | 0.101427 | 9.894330 | 17 | 50 | |
| 2 8.6 | | 20 | 9.792929 | 26 | 9.898616 | 43 | 0.101384 | 9.894313 | 17 | 40 | |
| 3 12.9 | | 30 | 9.792956 | 27 | 9.898659 | 43 | 0.101341 | 9.894296 | 17 | 30 | |
| 4 17.2 | | 40 | 9.792982 | 26 | 9.898703 | 44 | 0.101297 | 9.894280 | 16 | 20 | |
| 5 21.5 | | 50 | 9.793009 | 27 | 9.898746 | 43 | 0.101254 | 9.894263 | 17 | 10 | |
| 6 25.8 | 23 | 0 | 9.793035 | 27 | 9.898789 | 43 | 0.101211 | 9.894246 | 16 | 0 | 37 |
| 7 30.1 | | 10 | 9.793062 | 27 | 9.898832 | 44 | 0.101168 | 9.894230 | 17 | 50 | |
| 8 34.4 | | 20 | 9.793089 | 27 | 9.898876 | 44 | 0.101124 | 9.894213 | 17 | 40 | |
| 9 38.7 | | 30 | 9.793115 | 26 | 9.898919 | 43 | 0.101081 | 9.894196 | 17 | 30 | |
| | | 40 | 9.793142 | 27 | 9.898962 | 43 | 0.101038 | 9.894180 | 16 | 20 | |
| | | 50 | 9.793168 | 26 | 9.899005 | 43 | 0.100995 | 9.894163 | 17 | 10 | |
| * | 24 | 0 | 9.793195 | 27 | 9.899049 | 44 | 0.100951 | 9.894146 | 16 | 0 | 36 |
| 27 | | 10 | 9.793222 | 27 | 9.899092 | 43 | 0.100908 | 9.894130 | 17 | 50 | |
| 1 2.7 | | 20 | 9.793248 | 26 | 9.899135 | 43 | 0.100865 | 9.894113 | 17 | 40 | |
| 2 5.4 | | 30 | 9.793275 | 27 | 9.899178 | 43 | 0.100822 | 9.894096 | 17 | 30 | |
| 3 8.1 | | 40 | 9.793301 | 26 | 9.899222 | 44 | 0.100778 | 9.894079 | 17 | 20 | |
| 4 10.8 | | 50 | 9.793328 | 27 | 9.899265 | 43 | 0.100735 | 9.894063 | 16 | 10 | |
| 5 13.5 | 25 | 0 | 9.793354 | 27 | 9.899308 | 43 | 0.100692 | 9.894046 | 17 | 0 | 35 |
| 6 16.2 | | 10 | 9.793381 | 26 | 9.899351 | 44 | 0.100649 | 9.894029 | 16 | 50 | |
| 7 18.9 | | 20 | 9.793407 | 26 | 9.899395 | 44 | 0.100605 | 9.894013 | 16 | 40 | |
| 8 21.6 | | 30 | 9.793434 | 27 | 9.899438 | 43 | 0.100562 | 9.893996 | 17 | 30 | |
| 9 24.3 | | 40 | 9.793460 | 26 | 9.899481 | 43 | 0.100519 | 9.893979 | 17 | 20 | |
| | | 50 | 9.793487 | 27 | 9.899524 | 44 | 0.100476 | 9.893962 | 16 | 10 | |
| 26 | 26 | 0 | 9.793514 | 27 | 9.899568 | 44 | 0.100432 | 9.893946 | 17 | 0 | 34 |
| 1 2.6 | | 10 | 9.793540 | 26 | 9.899611 | 43 | 0.100389 | 9.893929 | 17 | 50 | |
| 2 5.2 | | 20 | 9.793567 | 27 | 9.899654 | 43 | 0.100346 | 9.893912 | 17 | 40 | |
| 3 7.8 | | 30 | 9.793593 | 26 | 9.899697 | 43 | 0.100303 | 9.893896 | 16 | 30 | |
| 4 10.4 | | 40 | 9.793620 | 27 | 9.899741 | 44 | 0.100259 | 9.893879 | 17 | 20 | |
| 5 13.0 | | 50 | 9.793646 | 26 | 9.899784 | 43 | 0.100216 | 9.893862 | 17 | 10 | |
| 6 15.6 | 27 | 0 | 9.793673 | 27 | 9.899827 | 43 | 0.100173 | 9.893846 | 16 | 0 | 33 |
| 7 18.2 | | 10 | 9.793699 | 26 | 9.899870 | 43 | 0.100130 | 9.893829 | 17 | 50 | |
| 8 20.8 | | 20 | 9.793726 | 27 | 9.899914 | 44 | 0.100086 | 9.893812 | 17 | 40 | |
| 9 23.4 | | 30 | 9.793752 | 26 | 9.899957 | 43 | 0.100043 | 9.893795 | 17 | 30 | |
| | | 40 | 9.793779 | 27 | 9.900000 | 43 | 0.100000 | 9.893779 | 16 | 20 | |
| | | 50 | 9.793805 | 26 | 9.900043 | 43 | 0.099957 | 9.893762 | 17 | 10 | |
| * | 28 | 0 | 9.793832 | 27 | 9.900087 | 44 | 0.099913 | 9.893745 | 17 | 0 | 32 |
| 16 | | 10 | 9.793858 | 26 | 9.900130 | 43 | 0.099870 | 9.893728 | 17 | 50 | |
| 1 1.6 | | 20 | 9.793885 | 27 | 9.900173 | 43 | 0.099827 | 9.893712 | 16 | 40 | |
| 2 3.2 | | 30 | 9.793911 | 26 | 9.900216 | 43 | 0.099784 | 9.893695 | 17 | 30 | |
| 3 4.8 | | 40 | 9.793938 | 27 | 9.900259 | 43 | 0.099741 | 9.893678 | 17 | 20 | |
| 4 6.4 | | 50 | 9.793964 | 26 | 9.900303 | 44 | 0.099697 | 9.893662 | 16 | 10 | |
| 5 8.0 | 29 | 0 | 9.793991 | 27 | 9.900346 | 43 | 0.099654 | 9.893645 | 17 | 0 | 31 |
| 6 9.6 | | 10 | 9.794017 | 26 | 9.900389 | 43 | 0.099611 | 9.893628 | 17 | 50 | |
| 7 11.2 | | 20 | 9.794044 | 27 | 9.900432 | 43 | 0.099568 | 9.893611 | 17 | 40 | |
| 8 12.8 | | 30 | 9.794070 | 26 | 9.900476 | 44 | 0.099524 | 9.893595 | 16 | 30 | |
| 9 14.4 | | 40 | 9.794097 | 27 | 9.900519 | 43 | 0.099481 | 9.893578 | 17 | 20 | |
| | | 50 | 9.794123 | 26 | 9.900562 | 43 | 0.099438 | 9.893561 | 17 | 10 | |
| | 30 | 0 | 9.794150 | 27 | 9.900605 | 43 | 0.099395 | 9.893544 | 17 | 0 | 30 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 30 | 0 | 9.794150 | 26 | 9.900605 | 43 | 0.099395 | 9.893544 | 16 | 0 | 30 |
| 10 | 10 | 9.794176 | 27 | 9.900648 | 43 | 0.099352 | 9.893528 | 17 | 50 | 44 |
| 20 | 20 | 9.794203 | 27 | 9.900692 | 44 | 0.099308 | 9.893511 | 17 | 40 | 1 4.4 |
| 30 | 30 | 9.794229 | 26 | 9.900735 | 43 | 0.099265 | 9.893494 | 17 | 30 | 2 8.8 |
| 40 | 40 | 9.794255 | 27 | 9.900778 | 43 | 0.099222 | 9.893477 | 17 | 20 | 3 13.2 |
| 50 | 50 | 9.794282 | 26 | 9.900821 | 43 | 0.099179 | 9.893461 | 16 | 10 | 4 17.6 |
| 31 | 0 | 9.794308 | 27 | 9.900864 | 43 | 0.099136 | 9.893444 | 17 | 0 | 5 22.0 |
| 10 | 10 | 9.794335 | 27 | 9.900908 | 44 | 0.099092 | 9.893427 | 17 | 50 | 6 26.4 |
| 20 | 20 | 9.794361 | 26 | 9.900951 | 43 | 0.099049 | 9.893410 | 17 | 40 | 7 30.8 |
| 30 | 30 | 9.794388 | 27 | 9.900994 | 43 | 0.099006 | 9.893394 | 16 | 30 | 8 35.2 |
| 40 | 40 | 9.794414 | 26 | 9.901037 | 43 | 0.098963 | 9.893377 | 17 | 20 | 9 39.6 |
| 50 | 50 | 9.794441 | 26 | 9.901081 | 44 | 0.098919 | 9.893360 | 17 | 10 | |
| 32 | 0 | 9.794467 | 26 | 9.901124 | 43 | 0.098876 | 9.893343 | 16 | 0 | 28 |
| 10 | 10 | 9.794493 | 27 | 9.901167 | 43 | 0.098833 | 9.893326 | 17 | 50 | 1 4.3 |
| 20 | 20 | 9.794520 | 26 | 9.901210 | 43 | 0.098790 | 9.893310 | 17 | 40 | 2 8.6 |
| 30 | 30 | 9.794546 | 27 | 9.901253 | 43 | 0.098747 | 9.893293 | 17 | 30 | 3 12.9 |
| 40 | 40 | 9.794573 | 26 | 9.901297 | 44 | 0.098703 | 9.893276 | 17 | 20 | 4 17.2 |
| 50 | 50 | 9.794599 | 26 | 9.901340 | 43 | 0.098660 | 9.893259 | 16 | 10 | 5 21.5 |
| 33 | 0 | 9.794626 | 27 | 9.901383 | 43 | 0.098617 | 9.893243 | 17 | 0 | 6 25.8 |
| 10 | 10 | 9.794652 | 26 | 9.901426 | 43 | 0.098574 | 9.893226 | 17 | 50 | 7 30.1 |
| 20 | 20 | 9.794678 | 26 | 9.901469 | 43 | 0.098531 | 9.893209 | 17 | 40 | 8 34.4 |
| 30 | 30 | 9.794705 | 27 | 9.901513 | 44 | 0.098487 | 9.893192 | 17 | 30 | 9 38.7 |
| 40 | 40 | 9.794731 | 26 | 9.901556 | 43 | 0.098444 | 9.893176 | 16 | 20 | |
| 50 | 50 | 9.794758 | 27 | 9.901599 | 43 | 0.098401 | 9.893159 | 17 | 10 | |
| 34 | 0 | 9.794784 | 26 | 9.901642 | 43 | 0.098358 | 9.893142 | 17 | 0 | 26 |
| 10 | 10 | 9.794810 | 26 | 9.901685 | 43 | 0.098315 | 9.893125 | 17 | 50 | |
| 20 | 20 | 9.794837 | 27 | 9.901729 | 44 | 0.098271 | 9.893108 | 17 | 40 | 27 |
| 30 | 30 | 9.794863 | 26 | 9.901772 | 43 | 0.098228 | 9.893092 | 16 | 30 | 1 2.7 |
| 40 | 40 | 9.794890 | 27 | 9.901815 | 43 | 0.098185 | 9.893075 | 17 | 20 | 2 5.4 |
| 50 | 50 | 9.794916 | 26 | 9.901858 | 43 | 0.098142 | 9.893058 | 17 | 10 | 3 8.1 |
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| 10 | 10 | 9.794969 | 26 | 9.901944 | 43 | 0.098056 | 9.893024 | 16 | 50 | 5 13.5 |
| 20 | 20 | 9.794995 | 26 | 9.901988 | 44 | 0.098012 | 9.893008 | 17 | 40 | 6 16.2 |
| 30 | 30 | 9.795022 | 27 | 9.902031 | 43 | 0.097969 | 9.892991 | 17 | 30 | 7 18.9 |
| 40 | 40 | 9.795048 | 26 | 9.902074 | 43 | 0.097926 | 9.892974 | 17 | 20 | 8 21.6 |
| 50 | 50 | 9.795074 | 26 | 9.902117 | 43 | 0.097883 | 9.892957 | 17 | 10 | 9 24.3 |
| 36 | 0 | 9.795101 | 27 | 9.902160 | 43 | 0.097840 | 9.892940 | 17 | 0 | 24 |
| 10 | 10 | 9.795127 | 26 | 9.902204 | 44 | 0.097796 | 9.892924 | 16 | 50 | 26 |
| 20 | 20 | 9.795154 | 27 | 9.902247 | 43 | 0.097753 | 9.892907 | 17 | 40 | 1 2.6 |
| 30 | 30 | 9.795180 | 26 | 9.902290 | 43 | 0.097710 | 9.892890 | 17 | 30 | 2 5.2 |
| 40 | 40 | 9.795206 | 26 | 9.902333 | 43 | 0.097667 | 9.892873 | 17 | 20 | 3 7.8 |
| 50 | 50 | 9.795233 | 27 | 9.902376 | 43 | 0.097624 | 9.892856 | 17 | 10 | 4 10.4 |
| 37 | 0 | 9.795259 | 26 | 9.902420 | 44 | 0.097580 | 9.892839 | 17 | 0 | 5 13.0 |
| 10 | 10 | 9.795285 | 26 | 9.902463 | 43 | 0.097537 | 9.892823 | 16 | 50 | 6 15.6 |
| 20 | 20 | 9.795312 | 27 | 9.902506 | 43 | 0.097494 | 9.892806 | 17 | 40 | 7 18.2 |
| 30 | 30 | 9.795338 | 26 | 9.902549 | 43 | 0.097451 | 9.892789 | 17 | 30 | 8 20.8 |
| 40 | 40 | 9.795364 | 26 | 9.902592 | 43 | 0.097408 | 9.892772 | 17 | 20 | 9 23.4 |
| 50 | 50 | 9.795391 | 27 | 9.902635 | 43 | 0.097365 | 9.892755 | 17 | 10 | |
| 38 | 0 | 9.795417 | 26 | 9.902679 | 44 | 0.097321 | 9.892739 | 16 | 0 | 22 |
| 10 | 10 | 9.795443 | 26 | 9.902722 | 43 | 0.097278 | 9.892722 | 17 | 50 | |
| 20 | 20 | 9.795470 | 27 | 9.902765 | 43 | 0.097235 | 9.892705 | 17 | 40 | 17 |
| 30 | 30 | 9.795496 | 26 | 9.902808 | 43 | 0.097192 | 9.892688 | 17 | 30 | 1 1.7 |
| 40 | 40 | 9.795522 | 26 | 9.902851 | 43 | 0.097149 | 9.892671 | 17 | 20 | 2 3.4 |
| 50 | 50 | 9.795549 | 27 | 9.902894 | 43 | 0.097106 | 9.892654 | 17 | 10 | 3 5.1 |
| 39 | 0 | 9.795575 | 26 | 9.902938 | 44 | 0.097062 | 9.892638 | 16 | 0 | 4 6.8 |
| 10 | 10 | 9.795601 | 26 | 9.902981 | 43 | 0.097019 | 9.892621 | 17 | 50 | 5 8.5 |
| 20 | 20 | 9.795628 | 27 | 9.903024 | 43 | 0.096976 | 9.892604 | 17 | 40 | 6 10.2 |
| 30 | 30 | 9.795654 | 26 | 9.903067 | 43 | 0.096933 | 9.892587 | 17 | 30 | 7 11.9 |
| 40 | 40 | 9.795680 | 26 | 9.903110 | 43 | 0.096890 | 9.892570 | 17 | 20 | 8 13.6 |
| 50 | 50 | 9.795707 | 27 | 9.903153 | 43 | 0.096847 | 9.892553 | 17 | 10 | 9 15.3 |
| 40 | 0 | 9.795733 | 26 | 9.903197 | 44 | 0.096803 | 9.892536 | 17 | 0 | 20 |

| | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----------|----------|----------|----------|----------|----------|----|----|----|
| 40 | 0 | 9.795733 | 26 | 9.903197 | 43 | 0.096803 | 9.892536 | 16 | 0 | 20 |
| 1 4.4 | 10 | 9.795759 | 27 | 9.903240 | 43 | 0.096760 | 9.892520 | 17 | 50 | |
| 2 8.8 | 20 | 9.795786 | 26 | 9.903283 | 43 | 0.096717 | 9.892503 | 17 | 40 | |
| 3 13.2 | 30 | 9.795812 | 26 | 9.903326 | 43 | 0.096674 | 9.892486 | 17 | 30 | |
| 4 17.6 | 40 | 9.795838 | 27 | 9.903369 | 43 | 0.096631 | 9.892469 | 17 | 20 | |
| 5 22.0 | 50 | 9.795865 | 26 | 9.903412 | 44 | 0.096588 | 9.892452 | 17 | 10 | |
| 6 26.4 | 41 | 0 | 9.795891 | 26 | 9.903456 | 0.096544 | 9.892435 | 16 | 0 | 19 |
| 7 30.8 | 10 | 9.795917 | 26 | 9.903499 | 43 | 0.096501 | 9.892419 | 17 | 50 | |
| 8 35.2 | 20 | 9.795943 | 27 | 9.903542 | 43 | 0.096458 | 9.892402 | 17 | 40 | |
| 9 39.6 | 30 | 9.795970 | 26 | 9.903585 | 43 | 0.096415 | 9.892385 | 17 | 30 | |
| | 40 | 9.795996 | 26 | 9.903628 | 43 | 0.096372 | 9.892368 | 17 | 20 | |
| | 50 | 9.796022 | 27 | 9.903671 | 43 | 0.096329 | 9.892351 | 17 | 10 | |
| 43 | 42 | 0 | 9.796049 | 26 | 9.903714 | 0.096286 | 9.892334 | 17 | 0 | 18 |
| 1 4.3 | 10 | 9.796075 | 26 | 9.903758 | 44 | 0.096242 | 9.892317 | 17 | 50 | |
| 2 8.6 | 20 | 9.796101 | 26 | 9.903801 | 43 | 0.096199 | 9.892300 | 17 | 40 | |
| 3 12.9 | 30 | 9.796127 | 27 | 9.903844 | 43 | 0.096156 | 9.892284 | 17 | 30 | |
| 4 17.2 | 40 | 9.796154 | 26 | 9.903887 | 43 | 0.096113 | 9.892267 | 17 | 20 | |
| 5 21.5 | 50 | 9.796180 | 26 | 9.903930 | 43 | 0.096070 | 9.892250 | 17 | 10 | |
| 6 25.8 | 43 | 0 | 9.796206 | 27 | 9.903973 | 0.096027 | 9.892233 | 17 | 0 | 17 |
| 7 30.1 | 10 | 9.796233 | 26 | 9.904016 | 43 | 0.095984 | 9.892216 | 17 | 50 | |
| 8 34.4 | 20 | 9.796259 | 26 | 9.904060 | 44 | 0.095940 | 9.892199 | 17 | 40 | |
| 9 38.7 | 30 | 9.796285 | 26 | 9.904103 | 43 | 0.095897 | 9.892182 | 17 | 30 | |
| | 40 | 9.796311 | 27 | 9.904146 | 43 | 0.095854 | 9.892165 | 17 | 20 | |
| | 50 | 9.796338 | 26 | 9.904189 | 43 | 0.095811 | 9.892149 | 16 | 10 | |
| * | 44 | 0 | 9.796364 | 26 | 9.904232 | 0.095768 | 9.892132 | 17 | 0 | 16 |
| 27 | 10 | 9.796390 | 26 | 9.904275 | 43 | 0.095725 | 9.892115 | 17 | 50 | |
| 1 2.7 | 20 | 9.796416 | 26 | 9.904318 | 43 | 0.095682 | 9.892098 | 17 | 40 | |
| 2 5.4 | 30 | 9.796443 | 26 | 9.904362 | 44 | 0.095638 | 9.892081 | 17 | 30 | |
| 3 8.1 | 40 | 9.796469 | 26 | 9.904405 | 43 | 0.095595 | 9.892064 | 17 | 20 | |
| 4 10.8 | 50 | 9.796495 | 26 | 9.904448 | 43 | 0.095552 | 9.892047 | 17 | 10 | |
| 5 13.5 | 45 | 0 | 9.796521 | 26 | 9.904491 | 0.095509 | 9.892030 | 17 | 0 | 15 |
| 6 16.2 | 10 | 9.796547 | 27 | 9.904534 | 43 | 0.095466 | 9.892013 | 17 | 50 | |
| 7 18.9 | 20 | 9.796574 | 26 | 9.904577 | 43 | 0.095423 | 9.891996 | 17 | 40 | |
| 8 21.6 | 30 | 9.796600 | 26 | 9.904620 | 43 | 0.095380 | 9.891979 | 16 | 30 | |
| 9 24.3 | 40 | 9.796626 | 26 | 9.904663 | 43 | 0.095337 | 9.891962 | 17 | 20 | |
| | 50 | 9.796652 | 27 | 9.904707 | 44 | 0.095293 | 9.891945 | 17 | 10 | |
| 26 | 46 | 0 | 9.796679 | 26 | 9.904750 | 0.095250 | 9.891929 | 17 | 0 | 14 |
| 1 2.6 | 10 | 9.796705 | 26 | 9.904793 | 43 | 0.095207 | 9.891912 | 17 | 50 | |
| 2 5.2 | 20 | 9.796731 | 26 | 9.904836 | 43 | 0.095164 | 9.891895 | 17 | 40 | |
| 3 7.8 | 30 | 9.796757 | 26 | 9.904879 | 43 | 0.095121 | 9.891878 | 17 | 30 | |
| 4 10.4 | 40 | 9.796783 | 26 | 9.904922 | 43 | 0.095078 | 9.891861 | 17 | 20 | |
| 5 13.0 | 50 | 9.796810 | 27 | 9.904965 | 43 | 0.095035 | 9.891844 | 17 | 10 | |
| 6 15.6 | 47 | 0 | 9.796836 | 26 | 9.905008 | 0.094992 | 9.891827 | 17 | 0 | 13 |
| 7 18.2 | 10 | 9.796862 | 26 | 9.905052 | 44 | 0.094948 | 9.891810 | 17 | 50 | |
| 8 20.8 | 20 | 9.796888 | 26 | 9.905095 | 43 | 0.094905 | 9.891794 | 16 | 40 | |
| 9 23.4 | 30 | 9.796914 | 26 | 9.905138 | 43 | 0.094862 | 9.891777 | 17 | 30 | |
| | 40 | 9.796941 | 27 | 9.905181 | 43 | 0.094819 | 9.891760 | 17 | 20 | |
| | 50 | 9.796967 | 26 | 9.905224 | 43 | 0.094776 | 9.891743 | 17 | 10 | |
| * | 48 | 0 | 9.796993 | 26 | 9.905267 | 0.094733 | 9.891726 | 17 | 0 | 12 |
| 16 | 10 | 9.797019 | 26 | 9.905310 | 43 | 0.094690 | 9.891709 | 17 | 50 | |
| 1 1.6 | 20 | 9.797045 | 26 | 9.905353 | 43 | 0.094647 | 9.891692 | 17 | 40 | |
| 2 3.2 | 30 | 9.797072 | 27 | 9.905397 | 44 | 0.094603 | 9.891675 | 17 | 30 | |
| 3 4.8 | 40 | 9.797098 | 26 | 9.905440 | 43 | 0.094560 | 9.891658 | 17 | 20 | |
| 4 6.4 | 50 | 9.797124 | 26 | 9.905483 | 43 | 0.094517 | 9.891641 | 17 | 10 | |
| 5 8.0 | 49 | 0 | 9.797150 | 26 | 9.905526 | 0.094474 | 9.891624 | 17 | 0 | 11 |
| 6 9.6 | 10 | 9.797176 | 26 | 9.905569 | 43 | 0.094431 | 9.891607 | 17 | 50 | |
| 7 11.2 | 20 | 9.797202 | 26 | 9.905612 | 43 | 0.094388 | 9.891590 | 17 | 40 | |
| 8 12.8 | 30 | 9.797229 | 27 | 9.905655 | 43 | 0.094345 | 9.891573 | 17 | 30 | |
| 9 14.4 | 40 | 9.797255 | 26 | 9.905698 | 43 | 0.094302 | 9.891556 | 17 | 20 | |
| | 50 | 9.797281 | 26 | 9.905741 | 43 | 0.094259 | 9.891540 | 16 | 10 | |
| | 50 | 9.797307 | 26 | 9.905785 | 44 | 0.094215 | 9.891523 | 17 | 0 | 10 |
| | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.797307 | 26 | 9.905785 | 43 | 0.094215 | 9.891523 | 17 | 0 | 10 |
| | 10 | 9.797333 | 26 | 9.905828 | 43 | 0.094172 | 9.891506 | 17 | 50 | 44 |
| | 20 | 9.797359 | 27 | 9.905871 | 43 | 0.094129 | 9.891489 | 17 | 40 | 1 4.4 |
| | 30 | 9.797386 | 27 | 9.905914 | 43 | 0.094086 | 9.891472 | 17 | 30 | 2 8.8 |
| | 40 | 9.797412 | 26 | 9.905957 | 43 | 0.094043 | 9.891455 | 17 | 20 | 3 13.2 |
| | 50 | 9.797438 | 26 | 9.906000 | 43 | 0.094000 | 9.891438 | 17 | 10 | 4 17.6 |
| 51 | 0 | 9.797464 | 26 | 9.906043 | 43 | 0.093957 | 9.891421 | 17 | 0 | 5 22.0 |
| | 10 | 9.797490 | 26 | 9.906086 | 43 | 0.093914 | 9.891404 | 17 | 50 | 6 26.4 |
| | 20 | 9.797516 | 26 | 9.906129 | 43 | 0.093871 | 9.891387 | 17 | 40 | 7 30.8 |
| | 30 | 9.797542 | 26 | 9.906172 | 43 | 0.093828 | 9.891370 | 17 | 30 | 8 35.2 |
| | 40 | 9.797569 | 27 | 9.906216 | 44 | 0.093784 | 9.891353 | 17 | 20 | 9 39.6 |
| | 50 | 9.797595 | 26 | 9.906259 | 43 | 0.093741 | 9.891336 | 17 | 10 | |
| 52 | 0 | 9.797621 | 26 | 9.906302 | 43 | 0.093698 | 9.891319 | 17 | 0 | 43 |
| | 10 | 9.797647 | 26 | 9.906345 | 43 | 0.093655 | 9.891302 | 17 | 50 | 1 4.3 |
| | 20 | 9.797673 | 26 | 9.906388 | 43 | 0.093612 | 9.891285 | 17 | 40 | 2 8.6 |
| | 30 | 9.797699 | 26 | 9.906431 | 43 | 0.093569 | 9.891268 | 17 | 30 | 3 12.9 |
| | 40 | 9.797725 | 26 | 9.906474 | 43 | 0.093526 | 9.891251 | 17 | 20 | 4 17.2 |
| | 50 | 9.797751 | 26 | 9.906517 | 43 | 0.093483 | 9.891234 | 17 | 10 | 5 21.5 |
| 53 | 0 | 9.797777 | 27 | 9.906560 | 43 | 0.093440 | 9.891217 | 17 | 0 | 6 25.8 |
| | 10 | 9.797804 | 26 | 9.906603 | 43 | 0.093397 | 9.891200 | 17 | 50 | 7 30.1 |
| | 20 | 9.797830 | 26 | 9.906646 | 43 | 0.093354 | 9.891183 | 17 | 40 | 8 34.4 |
| | 30 | 9.797856 | 26 | 9.906690 | 44 | 0.093310 | 9.891166 | 17 | 30 | 9 38.7 |
| | 40 | 9.797882 | 26 | 9.906733 | 43 | 0.093267 | 9.891149 | 17 | 20 | |
| | 50 | 9.797908 | 26 | 9.906776 | 43 | 0.093224 | 9.891132 | 17 | 10 | |
| 54 | 0 | 9.797934 | 26 | 9.906819 | 43 | 0.093181 | 9.891115 | 17 | 0 | * |
| | 10 | 9.797960 | 26 | 9.906862 | 43 | 0.093138 | 9.891098 | 17 | 50 | |
| | 20 | 9.797986 | 26 | 9.906905 | 43 | 0.093095 | 9.891081 | 17 | 40 | 27 |
| | 30 | 9.798012 | 26 | 9.906948 | 43 | 0.093052 | 9.891064 | 17 | 30 | 1 2.7 |
| | 40 | 9.798038 | 26 | 9.906991 | 43 | 0.093009 | 9.891047 | 17 | 20 | 2 5.4 |
| | 50 | 9.798065 | 27 | 9.907034 | 43 | 0.092966 | 9.891030 | 17 | 10 | 3 8.1 |
| 55 | 0 | 9.798091 | 26 | 9.907077 | 43 | 0.092923 | 9.891013 | 17 | 0 | 4 10.8 |
| | 10 | 9.798117 | 26 | 9.907120 | 43 | 0.092880 | 9.890996 | 17 | 50 | 5 13.5 |
| | 20 | 9.798143 | 26 | 9.907163 | 43 | 0.092837 | 9.890979 | 17 | 40 | 6 16.2 |
| | 30 | 9.798169 | 26 | 9.907207 | 44 | 0.092793 | 9.890962 | 17 | 30 | 7 18.9 |
| | 40 | 9.798195 | 26 | 9.907250 | 43 | 0.092750 | 9.890945 | 17 | 20 | 8 21.6 |
| | 50 | 9.798221 | 26 | 9.907293 | 43 | 0.092707 | 9.890928 | 17 | 10 | 9 24.3 |
| 56 | 0 | 9.798247 | 26 | 9.907336 | 43 | 0.092664 | 9.890911 | 17 | 0 | 26 |
| | 10 | 9.798273 | 26 | 9.907379 | 43 | 0.092621 | 9.890894 | 17 | 50 | 1 2.6 |
| | 20 | 9.798299 | 26 | 9.907422 | 43 | 0.092578 | 9.890877 | 17 | 40 | 2 5.2 |
| | 30 | 9.798325 | 26 | 9.907465 | 43 | 0.092535 | 9.890860 | 17 | 30 | 3 7.8 |
| | 40 | 9.798351 | 26 | 9.907508 | 43 | 0.092492 | 9.890843 | 17 | 20 | 4 10.4 |
| | 50 | 9.798377 | 26 | 9.907551 | 43 | 0.092449 | 9.890826 | 17 | 10 | 5 13.0 |
| 57 | 0 | 9.798403 | 26 | 9.907594 | 43 | 0.092406 | 9.890809 | 17 | 0 | 6 15.6 |
| | 10 | 9.798429 | 26 | 9.907637 | 43 | 0.092363 | 9.890792 | 17 | 50 | 7 18.2 |
| | 20 | 9.798455 | 26 | 9.907680 | 43 | 0.092320 | 9.890775 | 17 | 40 | 8 20.8 |
| | 30 | 9.798481 | 26 | 9.907723 | 43 | 0.092277 | 9.890758 | 17 | 30 | 9 23.4 |
| | 40 | 9.798508 | 27 | 9.907766 | 43 | 0.092234 | 9.890741 | 17 | 20 | |
| | 50 | 9.798534 | 26 | 9.907809 | 43 | 0.092191 | 9.890724 | 17 | 10 | |
| 58 | 0 | 9.798560 | 26 | 9.907853 | 44 | 0.092148 | 9.890707 | 17 | 0 | * |
| | 10 | 9.798586 | 26 | 9.907896 | 43 | 0.092104 | 9.890690 | 17 | 50 | |
| | 20 | 9.798612 | 26 | 9.907939 | 43 | 0.092061 | 9.890673 | 17 | 40 | 17 |
| | 30 | 9.798638 | 26 | 9.907982 | 43 | 0.092018 | 9.890656 | 17 | 30 | 1 1.7 |
| | 40 | 9.798664 | 26 | 9.908025 | 43 | 0.091975 | 9.890639 | 17 | 20 | 2 3.4 |
| | 50 | 9.798690 | 26 | 9.908068 | 43 | 0.091932 | 9.890622 | 17 | 10 | 3 5.1 |
| 59 | 0 | 9.798716 | 26 | 9.908111 | 43 | 0.091889 | 9.890605 | 17 | 0 | 4 6.8 |
| | 10 | 9.798742 | 26 | 9.908154 | 43 | 0.091846 | 9.890588 | 17 | 50 | 5 8.5 |
| | 20 | 9.798768 | 26 | 9.908197 | 43 | 0.091803 | 9.890571 | 17 | 40 | 6 10.2 |
| | 30 | 9.798794 | 26 | 9.908240 | 43 | 0.091760 | 9.890554 | 17 | 30 | 7 11.9 |
| | 40 | 9.798820 | 26 | 9.908283 | 43 | 0.091717 | 9.890537 | 17 | 20 | 8 13.6 |
| | 50 | 9.798846 | 26 | 9.908326 | 43 | 0.091674 | 9.890520 | 17 | 10 | 9 15.3 |
| 60 | 0 | 9.798872 | 26 | 9.908369 | 43 | 0.091631 | 9.890503 | 17 | 0 | |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

44
 1 4.4
 2 8.8
 3 13.2
 4 17.6
 5 22.0
 6 26.4
 7 30.8
 8 35.2
 9 39.6

 43
 1 4.3
 2 8.6
 3 12.9
 4 17.2
 5 21.5
 6 25.8
 7 30.1
 8 34.4
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 26
 1 2.6
 2 5.2
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 4 10.4
 5 13.0
 6 15.6
 7 18.2
 8 20.8
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 25
 1 2.5
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 3 7.5
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 5 12.5
 6 15.0
 7 17.5
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 9 22.5

 *
 17
 1 1.7
 2 3.4
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 6 10.2
 7 11.9
 8 13.6
 9 15.3

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.798872 | 26 | 9.908369 | 43 | 0.091631 | 9.890503 | 17 | 0 | 60 |
| | 10 | 9.798898 | 26 | 9.908412 | 43 | 0.091588 | 9.890486 | 18 | 50 | |
| | 20 | 9.798924 | 26 | 9.908455 | 43 | 0.091545 | 9.890468 | 17 | 40 | |
| | 30 | 9.798950 | 26 | 9.908498 | 43 | 0.091502 | 9.890451 | 17 | 30 | |
| | 40 | 9.798976 | 26 | 9.908541 | 43 | 0.091459 | 9.890434 | 17 | 20 | |
| | 50 | 9.799002 | 26 | 9.908584 | 43 | 0.091416 | 9.890417 | 17 | 10 | |
| 1 | 0 | 9.799028 | 26 | 9.908628 | 44 | 0.091372 | 9.890400 | 17 | 0 | 59 |
| | 10 | 9.799054 | 26 | 9.908671 | 43 | 0.091329 | 9.890383 | 17 | 50 | |
| | 20 | 9.799080 | 26 | 9.908714 | 43 | 0.091286 | 9.890366 | 17 | 40 | |
| | 30 | 9.799106 | 26 | 9.908757 | 43 | 0.091243 | 9.890349 | 17 | 30 | |
| | 40 | 9.799132 | 26 | 9.908800 | 43 | 0.091200 | 9.890332 | 17 | 20 | |
| | 50 | 9.799158 | 26 | 9.908843 | 43 | 0.091157 | 9.890315 | 17 | 10 | |
| 2 | 0 | 9.799184 | 26 | 9.908886 | 43 | 0.091114 | 9.890298 | 17 | 0 | 58 |
| | 10 | 9.799210 | 26 | 9.908929 | 43 | 0.091071 | 9.890281 | 17 | 50 | |
| | 20 | 9.799236 | 26 | 9.908972 | 43 | 0.091028 | 9.890264 | 17 | 40 | |
| | 30 | 9.799262 | 26 | 9.909015 | 43 | 0.090985 | 9.890247 | 17 | 30 | |
| | 40 | 9.799287 | 26 | 9.909058 | 43 | 0.090942 | 9.890230 | 17 | 20 | |
| | 50 | 9.799313 | 26 | 9.909101 | 43 | 0.090899 | 9.890212 | 17 | 10 | |
| 3 | 0 | 9.799339 | 26 | 9.909144 | 43 | 0.090856 | 9.890195 | 17 | 0 | 57 |
| | 10 | 9.799365 | 26 | 9.909187 | 43 | 0.090813 | 9.890178 | 17 | 50 | |
| | 20 | 9.799391 | 26 | 9.909230 | 43 | 0.090770 | 9.890161 | 17 | 40 | |
| | 30 | 9.799417 | 26 | 9.909273 | 43 | 0.090727 | 9.890144 | 17 | 30 | |
| | 40 | 9.799443 | 26 | 9.909316 | 43 | 0.090684 | 9.890127 | 17 | 20 | |
| | 50 | 9.799469 | 26 | 9.909359 | 43 | 0.090641 | 9.890110 | 17 | 10 | |
| 4 | 0 | 9.799495 | 26 | 9.909402 | 43 | 0.090598 | 9.890093 | 17 | 0 | 56 |
| | 10 | 9.799521 | 26 | 9.909445 | 43 | 0.090555 | 9.890076 | 17 | 50 | |
| | 20 | 9.799547 | 26 | 9.909488 | 43 | 0.090512 | 9.890059 | 17 | 40 | |
| | 30 | 9.799573 | 26 | 9.909531 | 43 | 0.090469 | 9.890042 | 17 | 30 | |
| | 40 | 9.799599 | 26 | 9.909574 | 43 | 0.090426 | 9.890025 | 17 | 20 | |
| | 50 | 9.799625 | 26 | 9.909617 | 43 | 0.090383 | 9.890007 | 17 | 10 | |
| 5 | 0 | 9.799651 | 26 | 9.909660 | 43 | 0.090340 | 9.889990 | 17 | 0 | 55 |
| | 10 | 9.799677 | 26 | 9.909703 | 43 | 0.090297 | 9.889973 | 17 | 50 | |
| | 20 | 9.799703 | 26 | 9.909746 | 43 | 0.090254 | 9.889956 | 17 | 40 | |
| | 30 | 9.799728 | 26 | 9.909789 | 43 | 0.090211 | 9.889939 | 17 | 30 | |
| | 40 | 9.799754 | 26 | 9.909832 | 43 | 0.090168 | 9.889922 | 17 | 20 | |
| | 50 | 9.799780 | 26 | 9.909875 | 43 | 0.090125 | 9.889905 | 17 | 10 | |
| 6 | 0 | 9.799806 | 26 | 9.909918 | 43 | 0.090082 | 9.889888 | 17 | 0 | 54 |
| | 10 | 9.799832 | 26 | 9.909961 | 43 | 0.090039 | 9.889871 | 17 | 50 | |
| | 20 | 9.799858 | 26 | 9.910005 | 44 | 0.089995 | 9.889853 | 17 | 40 | |
| | 30 | 9.799884 | 26 | 9.910048 | 43 | 0.089952 | 9.889836 | 17 | 30 | |
| | 40 | 9.799910 | 26 | 9.910091 | 43 | 0.089909 | 9.889819 | 17 | 20 | |
| | 50 | 9.799936 | 26 | 9.910134 | 43 | 0.089866 | 9.889802 | 17 | 10 | |
| 7 | 0 | 9.799962 | 26 | 9.910177 | 43 | 0.089823 | 9.889785 | 17 | 0 | 53 |
| | 10 | 9.799987 | 26 | 9.910220 | 43 | 0.089780 | 9.889768 | 17 | 50 | |
| | 20 | 9.800013 | 26 | 9.910263 | 43 | 0.089737 | 9.889751 | 17 | 40 | |
| | 30 | 9.800039 | 26 | 9.910306 | 43 | 0.089694 | 9.889734 | 17 | 30 | |
| | 40 | 9.800065 | 26 | 9.910349 | 43 | 0.089651 | 9.889716 | 17 | 20 | |
| | 50 | 9.800091 | 26 | 9.910392 | 43 | 0.089608 | 9.889699 | 17 | 10 | |
| 8 | 0 | 9.800117 | 26 | 9.910435 | 43 | 0.089565 | 9.889682 | 17 | 0 | 52 |
| | 10 | 9.800143 | 26 | 9.910478 | 43 | 0.089522 | 9.889665 | 17 | 50 | |
| | 20 | 9.800169 | 26 | 9.910521 | 43 | 0.089479 | 9.889648 | 17 | 40 | |
| | 30 | 9.800195 | 26 | 9.910564 | 43 | 0.089436 | 9.889631 | 17 | 30 | |
| | 40 | 9.800220 | 26 | 9.910607 | 43 | 0.089393 | 9.889614 | 17 | 20 | |
| | 50 | 9.800246 | 26 | 9.910650 | 43 | 0.089350 | 9.889597 | 17 | 10 | |
| 9 | 0 | 9.800272 | 26 | 9.910693 | 43 | 0.089307 | 9.889579 | 18 | 0 | 51 |
| | 10 | 9.800298 | 26 | 9.910736 | 43 | 0.089264 | 9.889562 | 17 | 50 | |
| | 20 | 9.800324 | 26 | 9.910779 | 43 | 0.089221 | 9.889545 | 17 | 40 | |
| | 30 | 9.800350 | 26 | 9.910822 | 43 | 0.089178 | 9.889528 | 17 | 30 | |
| | 40 | 9.800376 | 26 | 9.910865 | 43 | 0.089135 | 9.889511 | 17 | 20 | |
| | 50 | 9.800401 | 26 | 9.910908 | 43 | 0.089092 | 9.889494 | 17 | 10 | |
| 10 | 0 | 9.800427 | 26 | 9.910951 | 43 | 0.089049 | 9.889477 | 17 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 10 | o | 9.800427 | 26 | 9.910951 | 43 | 0.089049 | 9.889477 | 18 | o | 50 |
| | 10 | 9.800453 | 26 | 9.910994 | 43 | 0.089006 | 9.889459 | 17 | 50 | 43 |
| | 20 | 9.800479 | 26 | 9.911037 | 43 | 0.088963 | 9.889442 | 17 | 40 | 1 4.3 |
| | 30 | 9.800505 | 26 | 9.911080 | 43 | 0.088920 | 9.889425 | 17 | 30 | 2 8.6 |
| | 40 | 9.800531 | 25 | 9.911123 | 43 | 0.088877 | 9.889408 | 17 | 20 | 3 12.9 |
| | 50 | 9.800556 | 26 | 9.911166 | 43 | 0.088834 | 9.889391 | 17 | 10 | 4 17.2 |
| 11 | o | 9.800582 | 26 | 9.911209 | 43 | 0.088791 | 9.889374 | 17 | o | 49 |
| | 10 | 9.800608 | 26 | 9.911252 | 43 | 0.088748 | 9.889356 | 18 | 50 | 5 21.5 |
| | 20 | 9.800634 | 26 | 9.911295 | 43 | 0.088705 | 9.889339 | 17 | 40 | 6 25.8 |
| | 30 | 9.800660 | 26 | 9.911338 | 43 | 0.088662 | 9.889322 | 17 | 30 | 7 30.1 |
| | 40 | 9.800686 | 25 | 9.911381 | 43 | 0.088619 | 9.889305 | 17 | 20 | 8 34.4 |
| | 50 | 9.800711 | 26 | 9.911424 | 43 | 0.088576 | 9.889288 | 17 | 10 | 9 38.7 |
| 12 | o | 9.800737 | 26 | 9.911467 | 43 | 0.088533 | 9.889271 | 17 | o | 48 |
| | 10 | 9.800763 | 26 | 9.911510 | 43 | 0.088490 | 9.889253 | 18 | 50 | 1 4.2 |
| | 20 | 9.800789 | 26 | 9.911553 | 43 | 0.088447 | 9.889236 | 17 | 40 | 2 8.4 |
| | 30 | 9.800815 | 25 | 9.911596 | 43 | 0.088404 | 9.889219 | 17 | 30 | 3 12.6 |
| | 40 | 9.800840 | 26 | 9.911639 | 43 | 0.088361 | 9.889202 | 17 | 20 | 4 16.8 |
| | 50 | 9.800866 | 26 | 9.911682 | 43 | 0.088318 | 9.889185 | 17 | 10 | 5 21.0 |
| 13 | o | 9.800892 | 26 | 9.911725 | 43 | 0.088275 | 9.889168 | 17 | o | 47 |
| | 10 | 9.800918 | 26 | 9.911768 | 43 | 0.088232 | 9.889150 | 18 | 50 | 6 25.2 |
| | 20 | 9.800944 | 25 | 9.911810 | 42 | 0.088190 | 9.889133 | 17 | 40 | 7 29.4 |
| | 30 | 9.800969 | 26 | 9.911853 | 43 | 0.088147 | 9.889116 | 17 | 30 | 8 33.6 |
| | 40 | 9.800995 | 26 | 9.911896 | 43 | 0.088104 | 9.889099 | 17 | 20 | 9 37.8 |
| | 50 | 9.801021 | 26 | 9.911939 | 43 | 0.088061 | 9.889082 | 17 | 10 | |
| 14 | o | 9.801047 | 26 | 9.911982 | 43 | 0.088018 | 9.889064 | 18 | o | 46 |
| | 10 | 9.801073 | 25 | 9.912025 | 43 | 0.087975 | 9.889047 | 17 | 50 | * |
| | 20 | 9.801098 | 26 | 9.912068 | 43 | 0.087932 | 9.889030 | 17 | 40 | 26 |
| | 30 | 9.801124 | 26 | 9.912111 | 43 | 0.087889 | 9.889013 | 17 | 30 | 1 2.6 |
| | 40 | 9.801150 | 26 | 9.912154 | 43 | 0.087846 | 9.888996 | 17 | 20 | 2 5.2 |
| | 50 | 9.801176 | 25 | 9.912197 | 43 | 0.087803 | 9.888978 | 18 | 10 | 3 7.8 |
| 15 | o | 9.801201 | 26 | 9.912240 | 43 | 0.087760 | 9.888961 | 17 | o | 45 |
| | 10 | 9.801227 | 26 | 9.912283 | 43 | 0.087717 | 9.888944 | 17 | 50 | 4 10.4 |
| | 20 | 9.801253 | 26 | 9.912326 | 43 | 0.087674 | 9.888927 | 17 | 40 | 5 13.0 |
| | 30 | 9.801279 | 26 | 9.912369 | 43 | 0.087631 | 9.888910 | 17 | 30 | 6 15.6 |
| | 40 | 9.801305 | 25 | 9.912412 | 43 | 0.087588 | 9.888892 | 18 | 20 | 7 18.2 |
| | 50 | 9.801330 | 26 | 9.912455 | 43 | 0.087545 | 9.888875 | 17 | 10 | 8 20.8 |
| 16 | o | 9.801356 | 26 | 9.912498 | 43 | 0.087502 | 9.888858 | 17 | o | 44 |
| | 10 | 9.801382 | 26 | 9.912541 | 43 | 0.087459 | 9.888841 | 17 | 50 | 9 23.4 |
| | 20 | 9.801408 | 25 | 9.912584 | 43 | 0.087416 | 9.888824 | 17 | 40 | 25 |
| | 30 | 9.801433 | 26 | 9.912627 | 43 | 0.087373 | 9.888806 | 18 | 30 | 1 2.5 |
| | 40 | 9.801459 | 26 | 9.912670 | 43 | 0.087330 | 9.888789 | 17 | 20 | 2 5.0 |
| | 50 | 9.801485 | 26 | 9.912713 | 43 | 0.087287 | 9.888772 | 17 | 10 | 3 7.5 |
| 17 | o | 9.801511 | 25 | 9.912756 | 43 | 0.087244 | 9.888755 | 17 | o | 43 |
| | 10 | 9.801536 | 26 | 9.912799 | 43 | 0.087201 | 9.888738 | 18 | 50 | 4 10.0 |
| | 20 | 9.801562 | 26 | 9.912842 | 43 | 0.087158 | 9.888720 | 17 | 40 | 5 12.5 |
| | 30 | 9.801588 | 25 | 9.912885 | 43 | 0.087115 | 9.888703 | 17 | 30 | 6 15.0 |
| | 40 | 9.801613 | 26 | 9.912928 | 43 | 0.087072 | 9.888686 | 17 | 20 | 7 17.5 |
| | 50 | 9.801639 | 26 | 9.912971 | 43 | 0.087029 | 9.888669 | 17 | 10 | 8 20.0 |
| 18 | o | 9.801665 | 26 | 9.913014 | 43 | 0.086986 | 9.888651 | 18 | o | 42 |
| | 10 | 9.801691 | 25 | 9.913057 | 43 | 0.086943 | 9.888634 | 17 | 50 | 9 22.5 |
| | 20 | 9.801716 | 26 | 9.913100 | 43 | 0.086900 | 9.888617 | 17 | 40 | * |
| | 30 | 9.801742 | 26 | 9.913143 | 43 | 0.086857 | 9.888600 | 17 | 30 | 18 |
| | 40 | 9.801768 | 26 | 9.913185 | 42 | 0.086815 | 9.888582 | 18 | 20 | 1 1.8 |
| | 50 | 9.801794 | 26 | 9.913228 | 43 | 0.086772 | 9.888565 | 17 | 10 | 2 3.6 |
| 19 | o | 9.801819 | 25 | 9.913271 | 43 | 0.086729 | 9.888548 | 17 | o | 41 |
| | 10 | 9.801845 | 26 | 9.913314 | 43 | 0.086686 | 9.888531 | 17 | 50 | 3 5.4 |
| | 20 | 9.801871 | 25 | 9.913357 | 43 | 0.086643 | 9.888513 | 18 | 40 | 4 7.2 |
| | 30 | 9.801896 | 26 | 9.913400 | 43 | 0.086600 | 9.888496 | 17 | 30 | 5 9.0 |
| | 40 | 9.801922 | 26 | 9.913443 | 43 | 0.086557 | 9.888479 | 17 | 20 | 6 10.8 |
| | 50 | 9.801948 | 26 | 9.913486 | 43 | 0.086514 | 9.888462 | 17 | 10 | 7 12.6 |
| 20 | o | 9.801973 | 25 | 9.913529 | 43 | 0.086471 | 9.888444 | 18 | o | 40 |
| | | | | | | | | | | 8 14.4 |
| | | | | | | | | | | 9 16.2 |
| | " | Cos | d. | Cotg | d. c | Tang | Sin | d | " | |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 43 | 20 | 0.801973 | 26 | 9.913529 | 43 | 0.086471 | 9.888444 | 17 | 0 | 40 |
| 1 4.3 | 10 | 9.801999 | 26 | 9.913572 | 43 | 0.086428 | 9.888427 | 17 | 50 | |
| 2 8.6 | 20 | 9.802025 | 26 | 9.913615 | 43 | 0.086385 | 9.888410 | 17 | 40 | |
| 3 12.9 | 30 | 9.802051 | 26 | 9.913658 | 43 | 0.086342 | 9.888393 | 17 | 30 | |
| 4 17.2 | 40 | 9.802076 | 25 | 9.913701 | 43 | 0.086299 | 9.888375 | 17 | 20 | |
| 5 21.5 | 50 | 9.802102 | 26 | 9.913744 | 43 | 0.086256 | 9.888358 | 17 | 10 | |
| 6 25.8 | 21 | 0.802128 | 25 | 9.913787 | 43 | 0.086213 | 9.888341 | 17 | 0 | 39 |
| 7 30.1 | 10 | 9.802153 | 26 | 9.913830 | 43 | 0.086170 | 9.888324 | 17 | 50 | |
| 8 34.4 | 20 | 9.802179 | 26 | 9.913873 | 43 | 0.086127 | 9.888306 | 17 | 40 | |
| 9 38.7 | 30 | 9.802205 | 26 | 9.913916 | 43 | 0.086084 | 9.888289 | 17 | 30 | |
| | 40 | 9.802230 | 25 | 9.913959 | 43 | 0.086041 | 9.888272 | 17 | 20 | |
| | 50 | 9.802256 | 26 | 9.914001 | 43 | 0.085999 | 9.888254 | 17 | 10 | |
| 42 | 22 | 0.802282 | 25 | 9.914044 | 43 | 0.085956 | 9.888237 | 17 | 0 | 38 |
| 1 4.2 | 10 | 9.802307 | 26 | 9.914087 | 43 | 0.085913 | 9.888220 | 17 | 50 | |
| 2 8.4 | 20 | 9.802333 | 26 | 9.914130 | 43 | 0.085870 | 9.888202 | 17 | 40 | |
| 3 12.6 | 30 | 9.802359 | 26 | 9.914173 | 43 | 0.085827 | 9.888185 | 17 | 30 | |
| 4 16.8 | 40 | 9.802384 | 25 | 9.914216 | 43 | 0.085784 | 9.888168 | 17 | 20 | |
| 5 21.0 | 50 | 9.802410 | 26 | 9.914259 | 43 | 0.085741 | 9.888151 | 17 | 10 | |
| 6 25.2 | 23 | 0.802436 | 25 | 9.914302 | 43 | 0.085698 | 9.888134 | 17 | 0 | 37 |
| 7 29.4 | 10 | 9.802461 | 26 | 9.914345 | 43 | 0.085655 | 9.888116 | 17 | 50 | |
| 8 33.6 | 20 | 9.802487 | 26 | 9.914388 | 43 | 0.085612 | 9.888099 | 17 | 40 | |
| 9 37.8 | 30 | 9.802512 | 25 | 9.914431 | 43 | 0.085569 | 9.888082 | 17 | 30 | |
| * | 40 | 9.802538 | 26 | 9.914474 | 43 | 0.085526 | 9.888064 | 17 | 20 | |
| | 50 | 9.802564 | 25 | 9.914517 | 43 | 0.085483 | 9.888047 | 17 | 10 | |
| | 24 | 0.802589 | 26 | 9.914560 | 43 | 0.085440 | 9.888030 | 17 | 0 | 36 |
| 26 | 10 | 9.802615 | 26 | 9.914603 | 43 | 0.085397 | 9.888012 | 17 | 50 | |
| 1 2.6 | 20 | 9.802641 | 26 | 9.914645 | 42 | 0.085355 | 9.887995 | 17 | 40 | |
| 2 5.2 | 30 | 9.802666 | 25 | 9.914688 | 43 | 0.085312 | 9.887978 | 17 | 30 | |
| 3 7.8 | 40 | 9.802692 | 26 | 9.914731 | 43 | 0.085269 | 9.887961 | 17 | 20 | |
| 4 10.4 | 50 | 9.802718 | 25 | 9.914774 | 43 | 0.085226 | 9.887943 | 17 | 10 | |
| 5 13.0 | 25 | 0.802743 | 26 | 9.914817 | 43 | 0.085183 | 9.887926 | 17 | 0 | 35 |
| 6 15.6 | 10 | 9.802769 | 25 | 9.914860 | 43 | 0.085140 | 9.887909 | 17 | 50 | |
| 7 18.2 | 20 | 9.802794 | 26 | 9.914903 | 43 | 0.085097 | 9.887891 | 17 | 40 | |
| 8 20.8 | 30 | 9.802820 | 26 | 9.914946 | 43 | 0.085054 | 9.887874 | 17 | 30 | |
| 9 23.4 | 40 | 9.802846 | 26 | 9.914989 | 43 | 0.085011 | 9.887857 | 17 | 20 | |
| | 50 | 9.802871 | 25 | 9.915032 | 43 | 0.084968 | 9.887839 | 17 | 10 | |
| 25 | 26 | 0.802897 | 26 | 9.915075 | 43 | 0.084925 | 9.887822 | 17 | 0 | 34 |
| 1 2.5 | 10 | 9.802922 | 25 | 9.915118 | 43 | 0.084882 | 9.887805 | 17 | 50 | |
| 2 5.0 | 20 | 9.802948 | 26 | 9.915161 | 43 | 0.084839 | 9.887787 | 17 | 40 | |
| 3 7.5 | 30 | 9.802974 | 25 | 9.915203 | 42 | 0.084797 | 9.887770 | 17 | 30 | |
| 4 10.0 | 40 | 9.802999 | 25 | 9.915246 | 43 | 0.084754 | 9.887753 | 17 | 20 | |
| 5 12.5 | 50 | 9.803025 | 26 | 9.915289 | 43 | 0.084711 | 9.887735 | 17 | 10 | |
| 6 15.0 | 27 | 0.803050 | 25 | 9.915332 | 43 | 0.084668 | 9.887718 | 17 | 0 | 33 |
| 7 17.5 | 10 | 9.803076 | 26 | 9.915375 | 43 | 0.084625 | 9.887701 | 17 | 50 | |
| 8 20.0 | 20 | 9.803102 | 26 | 9.915418 | 43 | 0.084582 | 9.887684 | 17 | 40 | |
| 9 22.5 | 30 | 9.803127 | 25 | 9.915461 | 43 | 0.084539 | 9.887666 | 17 | 30 | |
| | 40 | 9.803153 | 26 | 9.915504 | 43 | 0.084496 | 9.887649 | 17 | 20 | |
| | 50 | 9.803178 | 25 | 9.915547 | 43 | 0.084453 | 9.887632 | 17 | 10 | |
| * | 28 | 0.803204 | 26 | 9.915590 | 43 | 0.084410 | 9.887614 | 17 | 0 | 32 |
| | 10 | 9.803229 | 25 | 9.915633 | 43 | 0.084367 | 9.887597 | 17 | 50 | |
| | 20 | 9.803255 | 26 | 9.915675 | 42 | 0.084325 | 9.887580 | 17 | 40 | |
| | 30 | 9.803281 | 26 | 9.915718 | 43 | 0.084282 | 9.887562 | 17 | 30 | |
| 17 | 40 | 9.803306 | 25 | 9.915761 | 43 | 0.084239 | 9.887545 | 17 | 20 | |
| 1 1.7 | 50 | 9.803332 | 26 | 9.915804 | 43 | 0.084196 | 9.887528 | 17 | 10 | |
| 2 3.4 | 29 | 0.803357 | 25 | 9.915847 | 43 | 0.084153 | 9.887510 | 17 | 0 | 31 |
| 3 5.1 | 10 | 9.803383 | 26 | 9.915890 | 43 | 0.084110 | 9.887493 | 17 | 50 | |
| 4 6.8 | 20 | 9.803408 | 25 | 9.915933 | 43 | 0.084067 | 9.887475 | 17 | 40 | |
| 5 8.5 | 30 | 9.803434 | 26 | 9.915976 | 43 | 0.084024 | 9.887458 | 17 | 30 | |
| 6 10.2 | 40 | 9.803459 | 25 | 9.916019 | 43 | 0.083981 | 9.887441 | 17 | 20 | |
| 7 11.9 | 50 | 9.803485 | 26 | 9.916062 | 43 | 0.083938 | 9.887423 | 17 | 10 | |
| 8 13.6 | 30 | 0.803511 | 26 | 9.916104 | 42 | 0.083896 | 9.887406 | 17 | 0 | 30 |
| 9 15.3 | | | | | | | | | | |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 30 | 0 | 9.803511 | 25 | 9.916104 | 43 | 0.083896 | 9.887406 | 17 | 0 | 30 |
| | 10 | 9.803536 | 26 | 9.916147 | 43 | 0.083853 | 9.887389 | 18 | 50 | 43 |
| | 20 | 9.803562 | 25 | 9.916190 | 43 | 0.083810 | 9.887371 | 17 | 40 | 1 4.3 |
| | 30 | 9.803587 | 25 | 9.916233 | 43 | 0.083767 | 9.887354 | 17 | 30 | 2 8.6 |
| | 40 | 9.803613 | 26 | 9.916276 | 43 | 0.083724 | 9.887337 | 17 | 20 | 3 12.0 |
| | 50 | 9.803638 | 25 | 9.916319 | 43 | 0.083681 | 9.887319 | 18 | 10 | 4 17.2 |
| 31 | 0 | 9.803664 | 26 | 9.916362 | 43 | 0.083638 | 9.887302 | 17 | 0 | 5 21.5 |
| | 10 | 9.803689 | 25 | 9.916405 | 43 | 0.083595 | 9.887285 | 18 | 50 | 6 25.8 |
| | 20 | 9.803715 | 25 | 9.916448 | 43 | 0.083552 | 9.887267 | 18 | 40 | 7 30.1 |
| | 30 | 9.803740 | 25 | 9.916491 | 43 | 0.083509 | 9.887250 | 17 | 30 | 8 34.4 |
| | 40 | 9.803766 | 26 | 9.916533 | 42 | 0.083467 | 9.887232 | 18 | 20 | 9 38.7 |
| | 50 | 9.803791 | 26 | 9.916576 | 43 | 0.083424 | 9.887215 | 17 | 10 | |
| 32 | 0 | 9.803817 | 25 | 9.916619 | 43 | 0.083381 | 9.887198 | 17 | 0 | |
| | 10 | 9.803842 | 26 | 9.916662 | 43 | 0.083338 | 9.887181 | 18 | 50 | 1 4.2 |
| | 20 | 9.803868 | 25 | 9.916705 | 43 | 0.083295 | 9.887164 | 17 | 40 | 2 8.4 |
| | 30 | 9.803893 | 25 | 9.916748 | 43 | 0.083252 | 9.887146 | 17 | 30 | 3 12.6 |
| | 40 | 9.803919 | 20 | 9.916791 | 43 | 0.083209 | 9.887128 | 18 | 20 | 4 16.8 |
| | 50 | 9.803944 | 26 | 9.916834 | 43 | 0.083166 | 9.887111 | 17 | 10 | 5 21.0 |
| 33 | 0 | 9.803970 | 25 | 9.916877 | 42 | 0.083123 | 9.887093 | 18 | 0 | 6 25.2 |
| | 10 | 9.803995 | 26 | 9.916919 | 43 | 0.083081 | 9.887076 | 17 | 50 | 7 29.1 |
| | 20 | 9.804021 | 25 | 9.916962 | 43 | 0.083038 | 9.887059 | 17 | 40 | 8 33.6 |
| | 30 | 9.804046 | 25 | 9.917005 | 43 | 0.082995 | 9.887041 | 18 | 30 | 9 37.8 |
| | 40 | 9.804072 | 26 | 9.917048 | 43 | 0.082952 | 9.887024 | 17 | 20 | |
| | 50 | 9.804097 | 25 | 9.917091 | 43 | 0.082909 | 9.887006 | 18 | 10 | |
| 34 | 0 | 9.804123 | 26 | 9.917134 | 43 | 0.082866 | 9.886989 | 17 | 0 | * |
| | 10 | 9.804148 | 25 | 9.917177 | 43 | 0.082823 | 9.886972 | 17 | 50 | |
| | 20 | 9.804174 | 25 | 9.917220 | 43 | 0.082780 | 9.886954 | 18 | 40 | 26 |
| | 30 | 9.804199 | 25 | 9.917262 | 42 | 0.082738 | 9.886937 | 17 | 30 | 1 2.6 |
| | 40 | 9.804225 | 26 | 9.917305 | 43 | 0.082695 | 9.886919 | 18 | 20 | 2 5.2 |
| | 50 | 9.804250 | 26 | 9.917348 | 43 | 0.082652 | 9.886902 | 17 | 10 | 3 7.8 |
| 35 | 0 | 9.804276 | 25 | 9.917391 | 43 | 0.082609 | 9.886885 | 17 | 0 | 4 10.4 |
| | 10 | 9.804301 | 26 | 9.917434 | 43 | 0.082566 | 9.886867 | 18 | 50 | 5 13.0 |
| | 20 | 9.804327 | 25 | 9.917477 | 43 | 0.082523 | 9.886850 | 17 | 40 | 6 15.6 |
| | 30 | 9.804352 | 25 | 9.917520 | 43 | 0.082480 | 9.886832 | 18 | 30 | 7 18.2 |
| | 40 | 9.804377 | 25 | 9.917563 | 43 | 0.082437 | 9.886815 | 17 | 20 | 8 20.8 |
| | 50 | 9.804403 | 26 | 9.917605 | 42 | 0.082395 | 9.886798 | 17 | 10 | 9 23.4 |
| 36 | 0 | 9.804428 | 25 | 9.917648 | 43 | 0.082352 | 9.886780 | 18 | 0 | |
| | 10 | 9.804454 | 26 | 9.917691 | 43 | 0.082309 | 9.886763 | 17 | 50 | 25 |
| | 20 | 9.804479 | 25 | 9.917734 | 43 | 0.082266 | 9.886745 | 18 | 40 | 1 2.5 |
| | 30 | 9.804505 | 25 | 9.917777 | 43 | 0.082223 | 9.886728 | 17 | 30 | 2 5.0 |
| | 40 | 9.804530 | 26 | 9.917820 | 43 | 0.082180 | 9.886710 | 18 | 20 | 3 7.5 |
| | 50 | 9.804556 | 25 | 9.917863 | 43 | 0.082137 | 9.886692 | 17 | 10 | 4 10.0 |
| 37 | 0 | 9.804581 | 26 | 9.917906 | 43 | 0.082094 | 9.886675 | 17 | 0 | 5 12.5 |
| | 10 | 9.804607 | 25 | 9.917948 | 42 | 0.082052 | 9.886658 | 18 | 50 | 6 15.0 |
| | 20 | 9.804632 | 25 | 9.917991 | 43 | 0.082009 | 9.886641 | 17 | 40 | 7 17.5 |
| | 30 | 9.804657 | 25 | 9.918034 | 43 | 0.081966 | 9.886623 | 18 | 30 | 8 20.0 |
| | 40 | 9.804683 | 26 | 9.918077 | 43 | 0.081923 | 9.886606 | 17 | 20 | 9 22.5 |
| | 50 | 9.804708 | 25 | 9.918120 | 43 | 0.081880 | 9.886588 | 18 | 10 | |
| 38 | 0 | 9.804734 | 26 | 9.918163 | 43 | 0.081837 | 9.886571 | 17 | 0 | * |
| | 10 | 9.804759 | 25 | 9.918206 | 43 | 0.081794 | 9.886554 | 17 | 50 | |
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| | 30 | 9.804810 | 26 | 9.918291 | 43 | 0.081709 | 9.886519 | 17 | 30 | 1 1.8 |
| | 40 | 9.804835 | 25 | 9.918334 | 43 | 0.081666 | 9.886501 | 18 | 20 | 2 3.6 |
| | 50 | 9.804861 | 26 | 9.918377 | 43 | 0.081623 | 9.886484 | 17 | 10 | 3 5.4 |
| 39 | 0 | 9.804886 | 25 | 9.918420 | 43 | 0.081580 | 9.886466 | 18 | 0 | 4 7.2 |
| | 10 | 9.804912 | 26 | 9.918463 | 43 | 0.081537 | 9.886449 | 17 | 50 | 5 9.0 |
| | 20 | 9.804937 | 25 | 9.918506 | 43 | 0.081494 | 9.886431 | 18 | 40 | 6 10.8 |
| | 30 | 9.804962 | 25 | 9.918548 | 42 | 0.081452 | 9.886414 | 17 | 30 | 7 12.6 |
| | 40 | 9.804988 | 26 | 9.918591 | 43 | 0.081409 | 9.886396 | 18 | 20 | 8 14.4 |
| | 50 | 9.805013 | 25 | 9.918634 | 43 | 0.081366 | 9.886379 | 17 | 10 | 9 16.2 |
| 40 | 0 | 9.805039 | 26 | 9.918677 | 43 | 0.081323 | 9.886362 | 17 | 0 | 20 |

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 40 | 0 | 9.805039 | 25 | 9.918677 | 43 | 0.081323 | 9.886362 | 18 | 0 | 20 |
| 1 4.3 | 10 | 9.805064 | 25 | 9.918720 | 43 | 0.081280 | 9.886344 | 17 | 50 | |
| 2 8.6 | 20 | 9.805089 | 26 | 9.918763 | 43 | 0.081237 | 9.886327 | 18 | 40 | |
| 3 12.9 | 30 | 9.805115 | 25 | 9.918805 | 42 | 0.081195 | 9.886309 | 17 | 30 | |
| 4 17.2 | 40 | 9.805140 | 25 | 9.918848 | 43 | 0.081152 | 9.886292 | 18 | 20 | |
| 5 21.5 | 50 | 9.805165 | 25 | 9.918891 | 43 | 0.081109 | 9.886274 | 17 | 10 | |
| 6 25.8 | 0 | 9.805191 | 26 | 9.918934 | 43 | 0.081066 | 9.886257 | 17 | 0 | 19 |
| 7 30.1 | 10 | 9.805216 | 25 | 9.918977 | 43 | 0.081023 | 9.886239 | 18 | 50 | |
| 8 34.4 | 20 | 9.805242 | 26 | 9.919020 | 43 | 0.080980 | 9.886222 | 17 | 40 | |
| 9 38.7 | 30 | 9.805267 | 25 | 9.919063 | 43 | 0.080937 | 9.886204 | 18 | 30 | |
| | 40 | 9.805292 | 25 | 9.919105 | 42 | 0.080895 | 9.886187 | 17 | 20 | |
| | 50 | 9.805318 | 26 | 9.919148 | 43 | 0.080852 | 9.886169 | 18 | 10 | |
| | 0 | 9.805343 | 25 | 9.919191 | 43 | 0.080809 | 9.886152 | 17 | 0 | 18 |
| 1 4.2 | 10 | 9.805368 | 25 | 9.919234 | 43 | 0.080766 | 9.886134 | 18 | 50 | |
| 2 8.4 | 20 | 9.805394 | 26 | 9.919277 | 43 | 0.080723 | 9.886117 | 17 | 40 | |
| 3 12.6 | 30 | 9.805419 | 25 | 9.919320 | 43 | 0.080680 | 9.886099 | 18 | 30 | |
| 4 16.8 | 40 | 9.805444 | 25 | 9.919362 | 42 | 0.080638 | 9.886082 | 17 | 20 | |
| 5 21.0 | 50 | 9.805470 | 26 | 9.919405 | 43 | 0.080595 | 9.886065 | 18 | 10 | |
| 6 25.2 | 0 | 9.805495 | 25 | 9.919448 | 43 | 0.080552 | 9.886047 | 17 | 0 | 17 |
| 7 29.4 | 10 | 9.805520 | 25 | 9.919491 | 43 | 0.080509 | 9.886030 | 18 | 50 | |
| 8 33.6 | 20 | 9.805546 | 26 | 9.919534 | 43 | 0.080466 | 9.886012 | 17 | 40 | |
| 9 37.8 | 30 | 9.805571 | 25 | 9.919577 | 43 | 0.080423 | 9.885995 | 18 | 30 | |
| * | 40 | 9.805597 | 26 | 9.919619 | 42 | 0.080381 | 9.885977 | 17 | 20 | |
| | 50 | 9.805622 | 25 | 9.919662 | 43 | 0.080338 | 9.885960 | 18 | 10 | |
| | 0 | 9.805647 | 26 | 9.919705 | 43 | 0.080295 | 9.885942 | 17 | 0 | 16 |
| | 10 | 9.805673 | 25 | 9.919748 | 43 | 0.080252 | 9.885925 | 18 | 50 | |
| 1 2.6 | 20 | 9.805698 | 25 | 9.919791 | 43 | 0.080209 | 9.885907 | 17 | 40 | |
| 2 5.2 | 30 | 9.805723 | 25 | 9.919834 | 43 | 0.080166 | 9.885890 | 18 | 30 | |
| 3 7.8 | 40 | 9.805748 | 26 | 9.919876 | 42 | 0.080124 | 9.885872 | 17 | 20 | |
| 4 10.4 | 50 | 9.805774 | 25 | 9.919919 | 43 | 0.080081 | 9.885855 | 18 | 10 | |
| 5 13.0 | 0 | 9.805799 | 25 | 9.919962 | 43 | 0.080038 | 9.885837 | 17 | 0 | 15 |
| 6 15.6 | 10 | 9.805824 | 26 | 9.920005 | 43 | 0.079995 | 9.885819 | 18 | 50 | |
| 7 18.2 | 20 | 9.805850 | 25 | 9.920048 | 43 | 0.079952 | 9.885802 | 17 | 40 | |
| 8 20.8 | 30 | 9.805875 | 25 | 9.920091 | 43 | 0.079909 | 9.885784 | 18 | 30 | |
| 9 23.4 | 40 | 9.805900 | 25 | 9.920133 | 42 | 0.079867 | 9.885767 | 17 | 20 | |
| | 50 | 9.805926 | 26 | 9.920176 | 43 | 0.079824 | 9.885749 | 18 | 10 | |
| | 0 | 9.805951 | 25 | 9.920219 | 43 | 0.079781 | 9.885732 | 17 | 0 | 14 |
| | 10 | 9.805976 | 25 | 9.920262 | 43 | 0.079738 | 9.885714 | 18 | 50 | |
| 1 2.5 | 20 | 9.806002 | 26 | 9.920305 | 43 | 0.079695 | 9.885697 | 17 | 40 | |
| 2 5.0 | 30 | 9.806027 | 25 | 9.920348 | 43 | 0.079652 | 9.885679 | 18 | 30 | |
| 3 7.5 | 40 | 9.806052 | 25 | 9.920390 | 42 | 0.079610 | 9.885662 | 17 | 20 | |
| 4 10.0 | 50 | 9.806077 | 25 | 9.920433 | 43 | 0.079567 | 9.885644 | 18 | 10 | |
| 5 12.5 | 0 | 9.806103 | 26 | 9.920476 | 43 | 0.079524 | 9.885627 | 17 | 0 | 13 |
| 6 15.0 | 10 | 9.806128 | 25 | 9.920519 | 43 | 0.079481 | 9.885609 | 18 | 50 | |
| 7 17.5 | 20 | 9.806153 | 25 | 9.920562 | 43 | 0.079438 | 9.885592 | 17 | 40 | |
| 8 20.0 | 30 | 9.806179 | 26 | 9.920604 | 42 | 0.079396 | 9.885574 | 18 | 30 | |
| 9 22.5 | 40 | 9.806204 | 25 | 9.920647 | 43 | 0.079353 | 9.885557 | 17 | 20 | |
| | 50 | 9.806229 | 25 | 9.920690 | 43 | 0.079310 | 9.885539 | 18 | 10 | |
| | 0 | 9.806254 | 25 | 9.920733 | 43 | 0.079267 | 9.885522 | 17 | 0 | 12 |
| | 10 | 9.806280 | 26 | 9.920776 | 43 | 0.079224 | 9.885504 | 18 | 50 | |
| | 20 | 9.806305 | 25 | 9.920819 | 43 | 0.079181 | 9.885486 | 17 | 40 | |
| | 30 | 9.806330 | 25 | 9.920861 | 42 | 0.079139 | 9.885469 | 18 | 30 | |
| | 40 | 9.806355 | 25 | 9.920904 | 43 | 0.079096 | 9.885451 | 17 | 20 | |
| | 50 | 9.806381 | 26 | 9.920947 | 43 | 0.079053 | 9.885434 | 18 | 10 | |
| | 0 | 9.806406 | 25 | 9.920990 | 43 | 0.079010 | 9.885416 | 17 | 0 | 11 |
| | 10 | 9.806431 | 25 | 9.921033 | 43 | 0.078967 | 9.885399 | 18 | 50 | |
| | 20 | 9.806456 | 26 | 9.921075 | 42 | 0.078925 | 9.885381 | 17 | 40 | |
| | 30 | 9.806482 | 26 | 9.921118 | 43 | 0.078882 | 9.885364 | 18 | 30 | |
| | 40 | 9.806507 | 25 | 9.921161 | 43 | 0.078839 | 9.885346 | 17 | 20 | |
| | 50 | 9.806532 | 25 | 9.921204 | 43 | 0.078796 | 9.885328 | 18 | 10 | |
| | 0 | 9.806557 | 25 | 9.921247 | 43 | 0.078753 | 9.885311 | 17 | 0 | 10 |
| | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 50 | 0 | 9.806557 | 26 | 9.921247 | 42 | 0.078539 | 9.885223 | 18 | 0 | 10 |
| | 10 | 9.806583 | 25 | 9.921289 | 43 | 0.078539 | 9.885223 | 17 | 50 | 43 |
| | 20 | 9.806608 | 25 | 9.921332 | 43 | 0.078539 | 9.885223 | 18 | 30 | 1 4.3 |
| | 30 | 9.806633 | 25 | 9.921375 | 43 | 0.078539 | 9.885223 | 17 | 40 | 2 8.6 |
| | 40 | 9.806658 | 25 | 9.921418 | 43 | 0.078539 | 9.885223 | 18 | 20 | 3 12.9 |
| | 50 | 9.806684 | 26 | 9.921461 | 43 | 0.078539 | 9.885223 | 18 | 10 | 4 17.2 |
| 51 | 0 | 9.806709 | 25 | 9.921503 | 42 | 0.078539 | 9.885223 | 18 | 0 | 5 21.5 |
| | 10 | 9.806734 | 25 | 9.921546 | 43 | 0.078539 | 9.885223 | 17 | 50 | 6 25.8 |
| | 20 | 9.806759 | 25 | 9.921589 | 43 | 0.078539 | 9.885223 | 18 | 40 | 7 30.1 |
| | 30 | 9.806785 | 26 | 9.921632 | 43 | 0.078539 | 9.885223 | 17 | 30 | 8 34.4 |
| | 40 | 9.806810 | 25 | 9.921675 | 43 | 0.078539 | 9.885223 | 18 | 20 | 9 38.7 |
| | 50 | 9.806835 | 25 | 9.921717 | 42 | 0.078539 | 9.885223 | 17 | 10 | |
| 52 | 0 | 9.806860 | 25 | 9.921760 | 43 | 0.078539 | 9.885223 | 18 | 0 | |
| | 10 | 9.806885 | 25 | 9.921803 | 43 | 0.078539 | 9.885223 | 18 | 50 | 42 |
| | 20 | 9.806911 | 26 | 9.921846 | 43 | 0.078539 | 9.885223 | 17 | 40 | 1 4.2 |
| | 30 | 9.806936 | 25 | 9.921889 | 43 | 0.078539 | 9.885223 | 18 | 30 | 2 8.4 |
| | 40 | 9.806961 | 25 | 9.921931 | 42 | 0.078539 | 9.885223 | 17 | 20 | 3 12.6 |
| | 50 | 9.806986 | 25 | 9.921974 | 43 | 0.078539 | 9.885223 | 18 | 10 | 4 16.8 |
| 53 | 0 | 9.807011 | 25 | 9.922017 | 43 | 0.077983 | 9.884994 | 18 | 0 | 5 21.0 |
| | 10 | 9.807037 | 26 | 9.922060 | 43 | 0.077983 | 9.884994 | 17 | 50 | 6 25.2 |
| | 20 | 9.807062 | 25 | 9.922103 | 43 | 0.077983 | 9.884994 | 18 | 40 | 7 29.4 |
| | 30 | 9.807087 | 25 | 9.922145 | 42 | 0.077983 | 9.884994 | 17 | 30 | 8 33.6 |
| | 40 | 9.807112 | 25 | 9.922188 | 43 | 0.077983 | 9.884994 | 18 | 20 | 9 37.8 |
| | 50 | 9.807137 | 25 | 9.922231 | 43 | 0.077983 | 9.884994 | 18 | 10 | |
| 54 | 0 | 9.807163 | 26 | 9.922274 | 43 | 0.077983 | 9.884994 | 17 | 0 | * |
| | 10 | 9.807188 | 25 | 9.922316 | 42 | 0.077983 | 9.884994 | 18 | 50 | |
| | 20 | 9.807213 | 25 | 9.922359 | 43 | 0.077983 | 9.884994 | 17 | 40 | 26 |
| | 30 | 9.807238 | 25 | 9.922402 | 43 | 0.077983 | 9.884994 | 18 | 30 | 1 2.6 |
| | 40 | 9.807263 | 25 | 9.922445 | 43 | 0.077983 | 9.884994 | 17 | 20 | 2 5.2 |
| | 50 | 9.807288 | 25 | 9.922488 | 43 | 0.077983 | 9.884994 | 18 | 10 | 3 7.8 |
| 55 | 0 | 9.807314 | 26 | 9.922530 | 42 | 0.077470 | 9.884783 | 18 | 0 | 4 10.4 |
| | 10 | 9.807339 | 25 | 9.922573 | 43 | 0.077427 | 9.884766 | 17 | 50 | 5 13.0 |
| | 20 | 9.807364 | 25 | 9.922616 | 43 | 0.077384 | 9.884748 | 18 | 40 | 6 15.6 |
| | 30 | 9.807389 | 25 | 9.922659 | 43 | 0.077341 | 9.884730 | 17 | 30 | 7 18.2 |
| | 40 | 9.807414 | 25 | 9.922702 | 43 | 0.077298 | 9.884713 | 18 | 20 | 8 20.8 |
| | 50 | 9.807439 | 26 | 9.922744 | 42 | 0.077255 | 9.884695 | 18 | 10 | 9 23.4 |
| 56 | 0 | 9.807465 | 25 | 9.922787 | 43 | 0.077213 | 9.884677 | 18 | 0 | |
| | 10 | 9.807490 | 25 | 9.922830 | 43 | 0.077170 | 9.884660 | 17 | 50 | 25 |
| | 20 | 9.807515 | 25 | 9.922873 | 43 | 0.077127 | 9.884642 | 18 | 40 | 1 2.5 |
| | 30 | 9.807540 | 25 | 9.922915 | 42 | 0.077085 | 9.884625 | 17 | 30 | 2 5.0 |
| | 40 | 9.807565 | 25 | 9.922958 | 43 | 0.077042 | 9.884607 | 18 | 20 | 3 7.5 |
| | 50 | 9.807590 | 25 | 9.923001 | 43 | 0.076999 | 9.884589 | 18 | 10 | 4 10.0 |
| 57 | 0 | 9.807615 | 25 | 9.923044 | 43 | 0.076956 | 9.884572 | 17 | 0 | 5 12.5 |
| | 10 | 9.807641 | 26 | 9.923087 | 43 | 0.076913 | 9.884554 | 18 | 50 | 6 15.0 |
| | 20 | 9.807666 | 25 | 9.923129 | 42 | 0.076871 | 9.884536 | 18 | 40 | 7 17.5 |
| | 30 | 9.807691 | 25 | 9.923172 | 43 | 0.076828 | 9.884519 | 17 | 30 | 8 20.0 |
| | 40 | 9.807716 | 25 | 9.923215 | 43 | 0.076785 | 9.884501 | 18 | 20 | 9 22.5 |
| | 50 | 9.807741 | 25 | 9.923258 | 43 | 0.076742 | 9.884483 | 18 | 10 | |
| 58 | 0 | 9.807766 | 25 | 9.923300 | 42 | 0.076700 | 9.884466 | 17 | 0 | * |
| | 10 | 9.807791 | 25 | 9.923343 | 43 | 0.076657 | 9.884448 | 18 | 50 | |
| | 20 | 9.807816 | 26 | 9.923386 | 43 | 0.076614 | 9.884431 | 17 | 40 | 18 |
| | 30 | 9.807842 | 25 | 9.923429 | 43 | 0.076571 | 9.884413 | 18 | 30 | 1 1.8 |
| | 40 | 9.807867 | 25 | 9.923471 | 42 | 0.076529 | 9.884395 | 18 | 20 | 2 3.6 |
| | 50 | 9.807892 | 25 | 9.923514 | 43 | 0.076486 | 9.884378 | 17 | 10 | 3 5.4 |
| 59 | 0 | 9.807917 | 25 | 9.923557 | 43 | 0.076443 | 9.884360 | 18 | 0 | 4 7.2 |
| | 10 | 9.807942 | 25 | 9.923600 | 43 | 0.076400 | 9.884342 | 18 | 50 | 5 9.0 |
| | 20 | 9.807967 | 25 | 9.923642 | 42 | 0.076358 | 9.884325 | 17 | 40 | 6 10.8 |
| | 30 | 9.807992 | 25 | 9.923685 | 43 | 0.076315 | 9.884307 | 18 | 30 | 7 12.6 |
| | 40 | 9.808017 | 25 | 9.923728 | 43 | 0.076272 | 9.884289 | 18 | 20 | 8 14.4 |
| | 50 | 9.808042 | 25 | 9.923771 | 43 | 0.076229 | 9.884272 | 17 | 10 | 9 16.2 |
| 60 | 0 | 9.808067 | 25 | 9.923814 | 43 | 0.076186 | 9.884254 | 18 | 0 | |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

43
1 4.3
2 8.6
3 12.9
4 17.2
5 21.5
6 25.8
7 30.1
8 34.4
9 38.7

42
1 4.2
2 8.4
3 12.6
4 16.8
5 21.0
6 25.2
7 29.4
8 33.6
9 37.8

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26
1 2.6
2 5.2
3 7.8
4 10.4
5 13.0
6 15.6
7 18.2
8 20.8
9 23.4

25
1 2.5
2 5.0
3 7.5
4 10.0
5 12.5
6 15.0
7 17.5
8 20.0
9 22.5

*

17
1 1.7
2 3.4
3 5.1
4 6.8
5 8.5
6 10.2
7 11.9
8 13.6
9 15.3

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|-----------|----|----|----|
| 0 | 0 | 9.808067 | 26 | 9.923814 | 42 | 0.076186 | 9.884254 | 18 | 0 | 60 |
| | 10 | 9.808093 | 25 | 9.923856 | 43 | 0.076144 | 9.884236 | 17 | 50 | |
| | 20 | 9.808118 | 25 | 9.923899 | 43 | 0.076101 | 9.884219 | 17 | 40 | |
| | 30 | 9.808143 | 25 | 9.923942 | 43 | 0.076058 | 9.884201 | 18 | 30 | |
| | 40 | 9.808168 | 25 | 9.923985 | 43 | 0.076015 | 9.884183 | 18 | 20 | |
| | 50 | 9.808193 | 25 | 9.924027 | 42 | 0.075973 | 9.884166 | 17 | 10 | |
| 1 | 0 | 9.808218 | 25 | 9.924070 | 43 | ... | ... | 18 | 0 | 59 |
| | 10 | 9.808243 | 25 | 9.924113 | 43 | ... | ... | 17 | 50 | |
| | 20 | 9.808268 | 25 | 9.924156 | 42 | ... | ... | 18 | 40 | |
| | 30 | 9.808293 | 25 | 9.924198 | 43 | ... | ... | 18 | 30 | |
| | 40 | 9.808318 | 25 | 9.924241 | 43 | 0.075759 | 9.8841077 | 18 | 20 | |
| | 50 | 9.808343 | 25 | 9.924284 | 43 | 0.075716 | 9.884060 | 17 | 10 | |
| 2 | 0 | 9.808368 | 25 | 9.924327 | 42 | 0.075673 | 9.884042 | 18 | 0 | 58 |
| | 10 | 9.808393 | 26 | 9.924369 | 43 | 0.075631 | 9.884024 | 18 | 50 | |
| | 20 | 9.808419 | 25 | 9.924412 | 43 | 0.075588 | 9.884006 | 17 | 40 | |
| | 30 | 9.808444 | 25 | 9.924455 | 43 | 0.075545 | 9.883989 | 17 | 30 | |
| | 40 | 9.808469 | 25 | 9.924498 | 43 | 0.075502 | 9.883971 | 18 | 20 | |
| | 50 | 9.808494 | 25 | 9.924540 | 42 | 0.075460 | 9.883953 | 17 | 10 | |
| 3 | 0 | 9.808519 | 25 | 9.924583 | 43 | ... | ... | 18 | 0 | 57 |
| | 10 | 9.808544 | 25 | 9.924626 | 43 | ... | ... | 18 | 50 | |
| | 20 | 9.808569 | 25 | 9.924669 | 42 | 0.075331 | 9.883900 | 17 | 40 | |
| | 30 | 9.808594 | 25 | 9.924711 | 43 | 0.075289 | 9.883883 | 18 | 30 | |
| | 40 | 9.808619 | 25 | 9.924754 | 43 | 0.075246 | 9.883865 | 18 | 20 | |
| | 50 | 9.808644 | 25 | 9.924797 | 43 | 0.075203 | 9.883847 | 18 | 10 | |
| 4 | 0 | 9.808669 | 25 | 9.924840 | 42 | 0.075160 | 9.883829 | 17 | 0 | 56 |
| | 10 | 9.808694 | 25 | 9.924882 | 43 | 0.075118 | 9.883812 | 18 | 50 | |
| | 20 | 9.808719 | 25 | 9.924925 | 43 | 0.075075 | 9.883794 | 18 | 40 | |
| | 30 | 9.808744 | 25 | 9.924968 | 43 | 0.075032 | 9.883776 | 17 | 30 | |
| | 40 | 9.808769 | 25 | 9.925011 | 43 | 0.074989 | 9.883759 | 17 | 20 | |
| | 50 | 9.808794 | 25 | 9.925053 | 42 | 0.074947 | 9.883741 | 18 | 10 | |
| 5 | 0 | 9.808819 | 25 | 9.925096 | 43 | 0.074904 | 9.883723 | 18 | 0 | 55 |
| | 10 | 9.808844 | 25 | 9.925139 | 42 | 0.074861 | 9.883705 | 17 | 50 | |
| | 20 | 9.808869 | 25 | 9.925181 | 42 | 0.074819 | 9.883688 | 18 | 40 | |
| | 30 | 9.808894 | 25 | 9.925224 | 43 | 0.074776 | 9.883670 | 18 | 30 | |
| | 40 | 9.808919 | 25 | 9.925267 | 43 | 0.074733 | 9.883652 | 17 | 20 | |
| | 50 | 9.808944 | 25 | 9.925310 | 42 | 0.074690 | 9.883635 | 18 | 10 | |
| 6 | 0 | 9.808969 | 25 | 9.925352 | 43 | 0.074648 | 9.883617 | 18 | 0 | 54 |
| | 10 | 9.808994 | 25 | 9.925395 | 43 | 0.074605 | 9.883599 | 18 | 50 | |
| | 20 | 9.809019 | 25 | 9.925438 | 43 | 0.074562 | 9.883581 | 18 | 40 | |
| | 30 | 9.809044 | 25 | 9.925481 | 43 | 0.074519 | 9.883564 | 17 | 30 | |
| | 40 | 9.809069 | 25 | 9.925523 | 43 | 0.074477 | 9.883546 | 18 | 20 | |
| | 50 | 9.809094 | 25 | 9.925566 | 43 | 0.074434 | 9.883528 | 18 | 10 | |
| 7 | 0 | 9.809119 | 25 | 9.925609 | 43 | 0.074391 | 9.883510 | 17 | 0 | 53 |
| | 10 | 9.809144 | 25 | 9.925652 | 43 | 0.074348 | 9.883493 | 18 | 50 | |
| | 20 | 9.809169 | 25 | 9.925694 | 42 | 0.074306 | 9.883475 | 18 | 40 | |
| | 30 | 9.809194 | 25 | 9.925737 | 43 | 0.074263 | 9.883457 | 18 | 30 | |
| | 40 | 9.809219 | 25 | 9.925780 | 42 | 0.074220 | 9.883439 | 17 | 20 | |
| | 50 | 9.809244 | 25 | 9.925822 | 43 | 0.074178 | 9.883422 | 17 | 10 | |
| 8 | 0 | 9.809269 | 25 | 9.925865 | 43 | 0.074135 | 9.883404 | 18 | 0 | 52 |
| | 10 | 9.809294 | 25 | 9.925908 | 43 | ... | ... | 18 | 50 | |
| | 20 | 9.809319 | 25 | 9.925951 | 43 | 0.074092 | 9.883388 | 18 | 40 | |
| | 30 | 9.809344 | 25 | 9.925993 | 42 | 0.074050 | 9.883371 | 17 | 30 | |
| | 40 | 9.809369 | 25 | 9.926036 | 43 | 0.073964 | 9.883353 | 18 | 20 | |
| | 50 | 9.809394 | 25 | 9.926079 | 43 | 0.073921 | 9.883335 | 18 | 10 | |
| 9 | 0 | 9.809419 | 25 | 9.926122 | 43 | 0.073878 | 9.883317 | 17 | 0 | 51 |
| | 10 | 9.809444 | 25 | 9.926164 | 42 | 0.073836 | 9.883280 | 18 | 50 | |
| | 20 | 9.809469 | 25 | 9.926207 | 43 | 0.073793 | 9.883262 | 18 | 40 | |
| | 30 | 9.809494 | 25 | 9.926250 | 43 | 0.073750 | 9.883244 | 18 | 30 | |
| | 40 | 9.809519 | 25 | 9.926292 | 42 | 0.073708 | 9.883226 | 18 | 20 | |
| | 50 | 9.809544 | 25 | 9.926335 | 43 | 0.073665 | 9.883209 | 17 | 10 | |
| 10 | 0 | 9.809569 | 25 | 9.926378 | 43 | 0.073622 | 9.883191 | 18 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d | Tang | d. c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.809569 | 25 | 9.926378 | 43 | 0.073622 | 9.883191 | 18 | 0 | 50 |
| | 10 | 9.809594 | 25 | 9.926421 | 42 | 0.073579 | 9.883173 | 18 | 50 | |
| | 20 | 9.809619 | 25 | 9.926463 | 42 | 0.073537 | 9.883155 | 18 | 40 | |
| | 30 | 9.809643 | 25 | 9.926506 | 43 | 0.073494 | 9.883137 | 18 | 30 | |
| | 40 | 9.809668 | 25 | 9.926549 | 42 | 0.073451 | 9.883120 | 18 | 20 | |
| | 50 | 9.809693 | 25 | 9.926591 | 42 | 0.073409 | 9.883102 | 18 | 10 | |
| 11 | 0 | 9.809718 | 25 | 9.926634 | 43 | 0.073366 | 9.883084 | 18 | 0 | 49 |
| | 10 | 9.809743 | 25 | 9.926677 | 43 | 0.073323 | 9.883066 | 17 | 50 | |
| | 20 | 9.809768 | 25 | 9.926720 | 43 | 0.073280 | 9.883049 | 18 | 40 | |
| | 30 | 9.809793 | 25 | 9.926762 | 42 | 0.073238 | 9.883031 | 18 | 30 | |
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| | 50 | 9.809843 | 25 | 9.926848 | 43 | 0.073152 | 9.882995 | 18 | 10 | |
| 12 | 0 | 9.809868 | 25 | 9.926890 | 42 | 0.073110 | 9.882977 | 17 | 0 | 48 |
| | 10 | 9.809893 | 25 | 9.926933 | 43 | 0.073067 | 9.882960 | 18 | 50 | |
| | 20 | 9.809918 | 25 | 9.926976 | 43 | 0.073024 | 9.882942 | 18 | 40 | |
| | 30 | 9.809943 | 25 | 9.927019 | 43 | 0.072981 | 9.882924 | 18 | 30 | |
| | 40 | 9.809967 | 25 | 9.927061 | 42 | 0.072939 | 9.882906 | 18 | 20 | |
| | 50 | 9.809992 | 25 | 9.927104 | 43 | 0.072896 | 9.882888 | 18 | 10 | |
| 13 | 0 | 9.810017 | 25 | 9.927147 | 42 | 0.072853 | 9.882871 | 18 | 0 | 47 |
| | 10 | 9.810042 | 25 | 9.927189 | 43 | 0.072811 | 9.882853 | 18 | 50 | |
| | 20 | 9.810067 | 25 | 9.927232 | 43 | 0.072768 | 9.882835 | 18 | 40 | |
| | 30 | 9.810092 | 25 | 9.927275 | 43 | 0.072725 | 9.882817 | 18 | 30 | |
| | 40 | 9.810117 | 25 | 9.927317 | 42 | 0.072683 | 9.882799 | 18 | 20 | |
| | 50 | 9.810142 | 25 | 9.927360 | 43 | 0.072640 | 9.882782 | 18 | 10 | |
| 14 | 0 | 9.810167 | 24 | 9.927403 | 43 | 0.072597 | 9.882764 | 18 | 0 | 46 |
| | 10 | 9.810191 | 25 | 9.927446 | 42 | 0.072554 | 9.882746 | 18 | 50 | |
| | 20 | 9.810216 | 25 | 9.927488 | 42 | 0.072512 | 9.882728 | 18 | 40 | |
| | 30 | 9.810241 | 25 | 9.927531 | 43 | 0.072469 | 9.882710 | 18 | 30 | |
| | 40 | 9.810266 | 25 | 9.927574 | 43 | 0.072426 | 9.882692 | 18 | 20 | |
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| | 10 | 9.810341 | 25 | 9.927702 | 42 | 0.072298 | 9.882639 | 18 | 50 | |
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| | 30 | 9.810390 | 24 | 9.927787 | 43 | 0.072213 | 9.882603 | 18 | 30 | |
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| | 50 | 9.810440 | 25 | 9.927872 | 42 | 0.072128 | 9.882568 | 18 | 10 | |
| 16 | 0 | 9.810465 | 25 | 9.927915 | 43 | 0.072085 | 9.882550 | 18 | 0 | 44 |
| | 10 | 9.810490 | 25 | 9.927958 | 43 | 0.072042 | 9.882532 | 18 | 50 | |
| | 20 | 9.810515 | 25 | 9.928001 | 42 | 0.071999 | 9.882514 | 18 | 40 | |
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| | 40 | 9.810564 | 24 | 9.928086 | 43 | 0.071914 | 9.882479 | 18 | 20 | |
| | 50 | 9.810589 | 25 | 9.928129 | 43 | 0.071871 | 9.882461 | 18 | 10 | |
| 17 | 0 | 9.810614 | 25 | 9.928171 | 42 | 0.071829 | 9.882443 | 18 | 0 | 43 |
| | 10 | 9.810639 | 25 | 9.928214 | 43 | 0.071786 | 9.882425 | 18 | 50 | |
| | 20 | 9.810664 | 25 | 9.928257 | 42 | 0.071743 | 9.882407 | 18 | 40 | |
| | 30 | 9.810689 | 25 | 9.928299 | 42 | 0.071701 | 9.882389 | 18 | 30 | |
| | 40 | 9.810713 | 24 | 9.928342 | 43 | 0.071658 | 9.882371 | 18 | 20 | |
| | 50 | 9.810738 | 25 | 9.928385 | 43 | 0.071615 | 9.882354 | 18 | 10 | |
| 18 | 0 | 9.810763 | 25 | 9.928427 | 42 | 0.071573 | 9.882336 | 18 | 0 | 42 |
| | 10 | 9.810788 | 25 | 9.928470 | 43 | 0.071530 | 9.882318 | 18 | 50 | |
| | 20 | 9.810813 | 25 | 9.928513 | 42 | 0.071487 | 9.882300 | 18 | 40 | |
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| 19 | 0 | 9.810912 | 25 | 9.928684 | 43 | 0.071316 | 9.882229 | 18 | 0 | 41 |
| | 10 | 9.810937 | 25 | 9.928726 | 42 | 0.071274 | 9.882211 | 18 | 50 | |
| | 20 | 9.810962 | 25 | 9.928769 | 43 | 0.071231 | 9.882193 | 18 | 40 | |
| | 30 | 9.810986 | 24 | 9.928812 | 43 | 0.071188 | 9.882175 | 18 | 30 | |
| | 40 | 9.811011 | 25 | 9.928854 | 42 | 0.071146 | 9.882157 | 18 | 20 | |
| | 50 | 9.811036 | 25 | 9.928897 | 43 | 0.071103 | 9.882139 | 18 | 10 | |
| 20 | 0 | 9.811061 | 25 | 9.928940 | 43 | 0.071060 | 9.882121 | 18 | 0 | 40 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

43
1 4.3
2 8.6
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4 17.2
5 21.5
6 25.8
7 30.1
8 34.4
9 38.7

42
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| | | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | |
|--------|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| | 20 | 0 | 9.811061 | 25 | 9.928940 | 42 | 0.071060 | 9.882121 | 18 | 0 | 40 |
| 43 | | 10 | 9.811086 | 25 | 9.928982 | 42 | 0.071018 | 9.882103 | 17 | 50 | |
| 1 4.3 | | 20 | 9.811110 | 24 | 9.929025 | 43 | 0.070975 | 9.882086 | 18 | 40 | |
| 2 8.6 | | 30 | 9.811135 | 25 | 9.929068 | 43 | 0.070932 | 9.882068 | 18 | 30 | |
| 3 12.9 | | 40 | 9.811160 | 25 | 9.929110 | 42 | 0.070890 | 9.882050 | 18 | 20 | |
| 4 17.2 | | 50 | 9.811185 | 25 | 9.929153 | 43 | 0.070847 | 9.882032 | 18 | 10 | |
| 5 21.5 | | 0 | 9.811210 | 25 | 9.929196 | 42 | 0.070804 | 9.882014 | 18 | 0 | 39 |
| 6 25.8 | | 10 | 9.811234 | 24 | 9.929238 | 42 | 0.070762 | 9.881996 | 18 | 50 | |
| 7 30.1 | | 20 | 9.811259 | 25 | 9.929281 | 43 | 0.070719 | 9.881978 | 18 | 40 | |
| 8 34.4 | | 30 | 9.811284 | 25 | 9.929324 | 43 | 0.070676 | 9.881960 | 18 | 30 | |
| 9 38.7 | | 40 | 9.811309 | 25 | 9.929366 | 42 | 0.070634 | 9.881942 | 18 | 20 | |
| | | 50 | 9.811334 | 25 | 9.929409 | 43 | 0.070591 | 9.881925 | 17 | 10 | |
| | 21 | 0 | 9.811358 | 24 | 9.929452 | 43 | 0.070548 | 9.881907 | 18 | 0 | 38 |
| 42 | | 10 | 9.811383 | 25 | 9.929494 | 42 | 0.070506 | 9.881889 | 18 | 50 | |
| 1 4.2 | | 20 | 9.811408 | 25 | 9.929537 | 43 | 0.070463 | 9.881871 | 18 | 40 | |
| 2 8.4 | | 30 | 9.811433 | 25 | 9.929580 | 42 | 0.070420 | 9.881853 | 18 | 30 | |
| 3 12.6 | | 40 | 9.811457 | 25 | 9.929622 | 42 | 0.070378 | 9.881835 | 18 | 20 | |
| 4 16.8 | | 50 | 9.811482 | 25 | 9.929665 | 43 | 0.070335 | 9.881817 | 18 | 10 | |
| 5 21.0 | | 0 | 9.811507 | 25 | 9.929708 | 43 | 0.070292 | 9.881799 | 18 | 0 | 37 |
| 6 25.2 | | 10 | 9.811532 | 25 | 9.929750 | 42 | 0.070250 | 9.881781 | 18 | 50 | |
| 7 29.4 | | 20 | 9.811556 | 24 | 9.929793 | 43 | 0.070207 | 9.881763 | 18 | 40 | |
| 8 33.6 | | 30 | 9.811581 | 25 | 9.929836 | 43 | 0.070164 | 9.881746 | 17 | 30 | |
| 9 37.8 | | 40 | 9.811606 | 25 | 9.929878 | 42 | 0.070122 | 9.881728 | 18 | 20 | |
| | | 50 | 9.811631 | 25 | 9.929921 | 43 | 0.070079 | 9.881710 | 18 | 10 | |
| * | 22 | 0 | 9.811655 | 24 | 9.929964 | 43 | 0.070036 | 9.881692 | 18 | 0 | 36 |
| | | 10 | 9.811680 | 25 | 9.930006 | 42 | 0.069994 | 9.881674 | 18 | 50 | |
| 25 | | 20 | 9.811705 | 25 | 9.930049 | 43 | 0.069951 | 9.881656 | 18 | 40 | |
| 1 2.5 | | 30 | 9.811730 | 25 | 9.930092 | 43 | 0.069908 | 9.881638 | 18 | 30 | |
| 2 5.0 | | 40 | 9.811754 | 24 | 9.930134 | 42 | 0.069866 | 9.881620 | 18 | 20 | |
| 3 7.5 | | 50 | 9.811779 | 25 | 9.930177 | 43 | 0.069823 | 9.881602 | 18 | 10 | |
| 4 10.0 | | 0 | 9.811804 | 25 | 9.930220 | 42 | 0.069780 | 9.881584 | 18 | 0 | 35 |
| 5 12.5 | | 10 | 9.811828 | 24 | 9.930262 | 42 | 0.069738 | 9.881566 | 18 | 50 | |
| 6 15.0 | | 20 | 9.811853 | 25 | 9.930305 | 43 | 0.069695 | 9.881548 | 18 | 40 | |
| 7 17.5 | | 30 | 9.811878 | 25 | 9.930348 | 43 | 0.069652 | 9.881530 | 18 | 30 | |
| 8 20.0 | | 40 | 9.811903 | 25 | 9.930390 | 42 | 0.069610 | 9.881512 | 18 | 20 | |
| 9 22.5 | | 50 | 9.811927 | 24 | 9.930433 | 42 | 0.069567 | 9.881495 | 17 | 10 | |
| | 23 | 0 | 9.811952 | 25 | 9.930475 | 42 | 0.069525 | 9.881477 | 18 | 0 | 34 |
| 24 | | 10 | 9.811977 | 25 | 9.930518 | 43 | 0.069483 | 9.881459 | 18 | 50 | |
| 1 2.4 | | 20 | 9.812001 | 24 | 9.930561 | 42 | 0.069441 | 9.881441 | 18 | 40 | |
| 2 4.8 | | 30 | 9.812026 | 25 | 9.930603 | 43 | 0.069399 | 9.881423 | 18 | 30 | |
| 3 7.2 | | 40 | 9.812051 | 25 | 9.930646 | 43 | 0.069357 | 9.881405 | 18 | 20 | |
| 4 9.6 | | 50 | 9.812076 | 25 | 9.930689 | 42 | 0.069315 | 9.881387 | 18 | 10 | |
| 5 12.0 | | 0 | 9.812100 | 24 | 9.930731 | 42 | 0.069273 | 9.881369 | 18 | 0 | 33 |
| 6 14.4 | | 10 | 9.812125 | 25 | 9.930774 | 43 | 0.069231 | 9.881351 | 18 | 50 | |
| 7 16.8 | | 20 | 9.812150 | 25 | 9.930817 | 42 | 0.069189 | 9.881333 | 18 | 40 | |
| 8 19.2 | | 30 | 9.812174 | 24 | 9.930859 | 43 | 0.069147 | 9.881315 | 18 | 30 | |
| 9 21.6 | | 40 | 9.812199 | 25 | 9.930902 | 43 | 0.069105 | 9.881297 | 18 | 20 | |
| | | 50 | 9.812224 | 25 | 9.930945 | 42 | 0.069063 | 9.881279 | 18 | 10 | |
| * | 24 | 0 | 9.812248 | 24 | 9.930987 | 42 | 0.069021 | 9.881261 | 18 | 0 | 32 |
| | | 10 | 9.812273 | 25 | 9.931030 | 43 | 0.068979 | 9.881243 | 18 | 50 | |
| 17 | | 20 | 9.812298 | 25 | 9.931073 | 42 | 0.068937 | 9.881225 | 18 | 40 | |
| 1 1.7 | | 30 | 9.812322 | 24 | 9.931115 | 43 | 0.068895 | 9.881207 | 18 | 30 | |
| 2 3.4 | | 40 | 9.812347 | 25 | 9.931158 | 43 | 0.068853 | 9.881189 | 18 | 20 | |
| 3 5.1 | | 50 | 9.812372 | 25 | 9.931200 | 42 | 0.068811 | 9.881171 | 18 | 10 | |
| 4 6.8 | | 0 | 9.812396 | 24 | 9.931243 | 43 | 0.068769 | 9.881153 | 18 | 0 | 31 |
| 5 8.5 | | 10 | 9.812421 | 25 | 9.931286 | 43 | 0.068727 | 9.881135 | 18 | 50 | |
| 6 10.2 | | 20 | 9.812446 | 25 | 9.931328 | 42 | 0.068685 | 9.881117 | 18 | 40 | |
| 7 11.9 | | 30 | 9.812470 | 24 | 9.931371 | 43 | 0.068643 | 9.881099 | 18 | 30 | |
| 8 13.6 | | 40 | 9.812495 | 25 | 9.931414 | 43 | 0.068601 | 9.881081 | 18 | 20 | |
| 9 15.3 | | 50 | 9.812520 | 25 | 9.931456 | 42 | 0.068559 | 9.881063 | 18 | 10 | |
| | 30 | 0 | 9.812544 | 24 | 9.931499 | 43 | 0.068517 | 9.881046 | 17 | 0 | 30 |
| | | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 30 | 0 | 9.812544 | 25 | 9.931499 | 43 | 0.068501 | 9.881046 | 18 | 0 | 30 |
| | 10 | 9.812569 | 25 | 9.931542 | 43 | 0.068458 | 9.881028 | 18 | 50 | 43 |
| | 20 | 9.812594 | 24 | 9.931584 | 42 | 0.068416 | 9.881010 | 18 | 40 | 1 4.3 |
| | 30 | 9.812618 | 25 | 9.931627 | 42 | 0.068373 | 9.880992 | 18 | 30 | 2 8.6 |
| | 40 | 9.812643 | 25 | 9.931669 | 42 | 0.068331 | 9.880974 | 18 | 20 | 3 12.9 |
| | 50 | 9.812668 | 24 | 9.931712 | 43 | 0.068288 | 9.880956 | 18 | 10 | 4 17.2 |
| 31 | 0 | 9.812692 | 25 | 9.931755 | 42 | 0.068245 | 9.880938 | 18 | 0 | 5 21.5 |
| | 10 | 9.812717 | 25 | 9.931797 | 43 | 0.068202 | 9.880920 | 18 | 50 | 6 25.8 |
| | 20 | 9.812742 | 24 | 9.931840 | 43 | 0.068160 | 9.880902 | 18 | 40 | 7 30.1 |
| | 30 | 9.812766 | 25 | 9.931883 | 42 | 0.068117 | 9.880884 | 18 | 30 | 8 34.4 |
| | 40 | 9.812791 | 25 | 9.931925 | 42 | 0.068075 | 9.880866 | 18 | 20 | 9 38.7 |
| | 50 | 9.812815 | 24 | 9.931968 | 43 | 0.068032 | 9.880848 | 18 | 10 | |
| 32 | 0 | 9.812840 | 25 | 9.932010 | 42 | 0.067990 | 9.880830 | 18 | 0 | 42 |
| | 10 | 9.812865 | 24 | 9.932053 | 43 | 0.067947 | 9.880812 | 18 | 50 | 1 4.2 |
| | 20 | 9.812889 | 25 | 9.932096 | 42 | 0.067904 | 9.880794 | 18 | 40 | 2 8.4 |
| | 30 | 9.812914 | 25 | 9.932138 | 43 | 0.067862 | 9.880776 | 18 | 30 | 3 12.6 |
| | 40 | 9.812939 | 24 | 9.932181 | 43 | 0.067819 | 9.880758 | 18 | 20 | 4 16.8 |
| | 50 | 9.812963 | 25 | 9.932224 | 42 | 0.067776 | 9.880740 | 18 | 10 | 5 21.0 |
| 33 | 0 | 9.812988 | 24 | 9.932266 | 43 | 0.067734 | 9.880722 | 18 | 0 | 6 25.2 |
| | 10 | 9.813012 | 25 | 9.932309 | 42 | 0.067691 | 9.880704 | 18 | 50 | 7 29.4 |
| | 20 | 9.813037 | 25 | 9.932351 | 43 | 0.067649 | 9.880686 | 18 | 40 | 8 33.6 |
| | 30 | 9.813062 | 24 | 9.932394 | 43 | 0.067606 | 9.880668 | 18 | 30 | 9 37.8 |
| | 40 | 9.813086 | 25 | 9.932437 | 42 | 0.067563 | 9.880649 | 18 | 20 | * |
| | 50 | 9.813111 | 24 | 9.932479 | 43 | 0.067521 | 9.880631 | 18 | 10 | |
| 34 | 0 | 9.813135 | 25 | 9.932522 | 42 | 0.067478 | 9.880613 | 18 | 0 | 26 |
| | 10 | 9.813160 | 25 | 9.932565 | 43 | 0.067435 | 9.880595 | 18 | 50 | 25 |
| | 20 | 9.813185 | 24 | 9.932607 | 42 | 0.067393 | 9.880577 | 18 | 40 | 1 2.5 |
| | 30 | 9.813209 | 25 | 9.932650 | 43 | 0.067350 | 9.880559 | 18 | 30 | 2 5.0 |
| | 40 | 9.813234 | 24 | 9.932692 | 42 | 0.067308 | 9.880541 | 18 | 20 | 3 7.5 |
| | 50 | 9.813258 | 25 | 9.932735 | 43 | 0.067265 | 9.880523 | 18 | 10 | 4 10.0 |
| 35 | 0 | 9.813283 | 24 | 9.932778 | 42 | 0.067222 | 9.880505 | 18 | 0 | 5 12.5 |
| | 10 | 9.813307 | 25 | 9.932820 | 43 | 0.067180 | 9.880487 | 18 | 50 | 6 15.0 |
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| 39 | 0 | 9.813872 | 24 | 9.933800 | 42 | 0.066200 | 9.880072 | 18 | 0 | 4 7.2 |
| | 10 | 9.813897 | 25 | 9.933843 | 43 | 0.066157 | 9.880054 | 18 | 50 | 5 9.0 |
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| 40 | 0 | 9.814019 | 24 | 9.934056 | 42 | 0.065944 | 9.879963 | 18 | 0 | 20 |

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| ' | " | Sin | d | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9°13179 | 25 | 9.934056 | 42 | 0.065944 | 9.879963 | 18 | 0 | 20 |
| | 10 | 9.814044 | 24 | 9.934098 | 43 | 0.065902 | 9.879945 | 18 | 50 | |
| | 20 | 9.814068 | 25 | 9.934141 | 43 | 0.065859 | 9.879927 | 18 | 40 | |
| | 30 | 9.814093 | 25 | 9.934184 | 43 | 0.065816 | 9.879909 | 18 | 30 | |
| | 40 | 9.814117 | 24 | 9.934226 | 42 | 0.065774 | 9.879891 | 18 | 20 | |
| | 50 | 9.814142 | 25 | 9.934269 | 43 | 0.065731 | 9.879873 | 18 | 10 | |
| 41 | 0 | 9.814166 | 24 | 9.934311 | 42 | 0.065689 | 9.879855 | 18 | 0 | 19 |
| | 10 | 9.814191 | 24 | 9.934354 | 43 | 0.065646 | 9.879837 | 18 | 50 | |
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| | 40 | 9.814264 | 24 | 9.934482 | 43 | 0.065518 | 9.879782 | 18 | 20 | |
| | 50 | 9.814289 | 25 | 9.934524 | 42 | 0.065476 | 9.879764 | 18 | 10 | |
| 42 | 0 | 9.814313 | 24 | 9.934567 | 43 | 0.065433 | 9.879746 | 18 | 0 | 18 |
| | 10 | 9.814338 | 24 | 9.934610 | 42 | 0.065390 | 9.879728 | 18 | 50 | |
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| 43 | 0 | 9.814460 | 24 | 9.934822 | 42 | 0.065178 | 9.879637 | 18 | 0 | 17 |
| | 10 | 9.814484 | 24 | 9.934865 | 43 | 0.065135 | 9.879619 | 18 | 50 | |
| | 20 | 9.814509 | 25 | 9.934908 | 42 | 0.065092 | 9.879601 | 18 | 40 | |
| | 30 | 9.814533 | 24 | 9.934950 | 43 | 0.065050 | 9.879583 | 18 | 30 | |
| | 40 | 9.814558 | 25 | 9.934993 | 43 | 0.065007 | 9.879565 | 18 | 20 | |
| | 50 | 9.814582 | 24 | 9.935035 | 42 | 0.064965 | 9.879547 | 18 | 10 | |
| 44 | 0 | 9.814607 | 25 | 9.935078 | 43 | 0.064922 | 9.879529 | 18 | 0 | 16 |
| | 10 | 9.814631 | 24 | 9.935121 | 42 | 0.064879 | 9.879511 | 18 | 50 | |
| | 20 | 9.814656 | 25 | 9.935163 | 43 | 0.064837 | 9.879492 | 18 | 40 | |
| | 30 | 9.814680 | 24 | 9.935206 | 42 | 0.064794 | 9.879474 | 18 | 30 | |
| | 40 | 9.814704 | 25 | 9.935248 | 43 | 0.064752 | 9.879456 | 18 | 20 | |
| | 50 | 9.814729 | 24 | 9.935291 | 42 | 0.064709 | 9.879438 | 18 | 10 | |
| 45 | 0 | 9.814753 | 25 | 9.935333 | 43 | 0.064667 | 9.879420 | 18 | 0 | 15 |
| | 10 | 9.814778 | 24 | 9.935376 | 42 | 0.064624 | 9.879402 | 18 | 50 | |
| | 20 | 9.814802 | 25 | 9.935419 | 43 | 0.064581 | 9.879384 | 18 | 40 | |
| | 30 | 9.814827 | 24 | 9.935461 | 42 | 0.064539 | 9.879366 | 18 | 30 | |
| | 40 | 9.814851 | 25 | 9.935504 | 43 | 0.064496 | 9.879348 | 18 | 20 | |
| | 50 | 9.814876 | 24 | 9.935546 | 42 | 0.064454 | 9.879330 | 18 | 10 | |
| 46 | 0 | 9.814900 | 25 | 9.935589 | 43 | 0.064411 | 9.879311 | 18 | 0 | 14 |
| | 10 | 9.814924 | 24 | 9.935632 | 42 | 0.064368 | 9.879293 | 18 | 50 | |
| | 20 | 9.814949 | 25 | 9.935674 | 43 | 0.064326 | 9.879275 | 18 | 40 | |
| | 30 | 9.814973 | 24 | 9.935717 | 42 | 0.064283 | 9.879257 | 18 | 30 | |
| | 40 | 9.814998 | 25 | 9.935759 | 43 | 0.064241 | 9.879238 | 18 | 20 | |
| | 50 | 9.815022 | 24 | 9.935802 | 42 | 0.064198 | 9.879220 | 18 | 10 | |
| 47 | 0 | 9.815046 | 25 | 9.935844 | 43 | 0.064156 | 9.879202 | 18 | 0 | 13 |
| | 10 | 9.815071 | 24 | 9.935887 | 42 | 0.064113 | 9.879184 | 18 | 50 | |
| | 20 | 9.815095 | 25 | 9.935930 | 43 | 0.064070 | 9.879166 | 18 | 40 | |
| | 30 | 9.815120 | 24 | 9.935972 | 42 | 0.064028 | 9.879148 | 18 | 30 | |
| | 40 | 9.815144 | 25 | 9.936015 | 43 | 0.063985 | 9.879129 | 18 | 20 | |
| | 50 | 9.815168 | 24 | 9.936057 | 42 | 0.063943 | 9.879111 | 18 | 10 | |
| 48 | 0 | 9.815193 | 25 | 9.936100 | 43 | 0.063900 | 9.879093 | 18 | 0 | 12 |
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| | 50 | 9.815315 | 24 | 9.936313 | 42 | 0.063687 | 9.879002 | 18 | 10 | |
| 49 | 0 | 9.815339 | 25 | 9.936355 | 43 | 0.063645 | 9.878984 | 18 | 0 | 11 |
| | 10 | 9.815364 | 24 | 9.936398 | 42 | 0.063602 | 9.878966 | 18 | 50 | |
| | 20 | 9.815388 | 25 | 9.936440 | 43 | 0.063560 | 9.878948 | 18 | 40 | |
| | 30 | 9.815412 | 24 | 9.936483 | 42 | 0.063517 | 9.878929 | 18 | 30 | |
| | 40 | 9.815437 | 25 | 9.936525 | 43 | 0.063475 | 9.878911 | 18 | 20 | |
| | 50 | 9.815461 | 24 | 9.936568 | 42 | 0.063432 | 9.878893 | 18 | 10 | |
| 50 | 0 | 9.815485 | 24 | 9.936611 | 43 | 0.063390 | 9.878875 | 18 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|--------|
| 50 | 0 | 9.815485 | 25 | 9.936611 | 42 | 0.063304 | 9.878838 | 18 | 0 | 10 |
| | 10 | 9.815510 | 24 | 9.936653 | 43 | 0.063304 | 9.878838 | 19 | 50 | 43 |
| | 20 | 9.815534 | 24 | 9.936696 | 42 | 0.063262 | 9.878820 | 18 | 40 | 1 4.3 |
| | 30 | 9.815558 | 24 | 9.936738 | 43 | 0.063219 | 9.878802 | 18 | 30 | 2 8.6 |
| | 40 | 9.815583 | 25 | 9.936781 | 42 | 0.063177 | 9.878784 | 18 | 20 | 3 12.9 |
| | 50 | 9.815607 | 25 | 9.936823 | 43 | 0.063134 | 9.878766 | 18 | 10 | 4 17.2 |
| 51 | 0 | 9.815632 | 24 | 9.936866 | 42 | 0.063092 | 9.878747 | 19 | 0 | 5 21.5 |
| | 10 | 9.815656 | 24 | 9.936908 | 43 | 0.063049 | 9.878729 | 18 | 50 | 6 25.8 |
| | 20 | 9.815680 | 25 | 9.936951 | 43 | 0.063006 | 9.878711 | 18 | 40 | 7 30.1 |
| | 30 | 9.815705 | 25 | 9.936994 | 42 | 0.062964 | 9.878693 | 18 | 30 | 8 34.4 |
| | 40 | 9.815729 | 24 | 9.937036 | 43 | 0.062921 | 9.878675 | 18 | 20 | 9 38.7 |
| | 50 | 9.815753 | 25 | 9.937079 | 42 | 0.062879 | 9.878656 | 19 | 10 | |
| 52 | 0 | 9.815778 | 24 | 9.937121 | 43 | 0.062836 | 9.878638 | 18 | 0 | 42 |
| | 10 | 9.815802 | 24 | 9.937164 | 42 | 0.062794 | 9.878620 | 18 | 50 | 1 4.2 |
| | 20 | 9.815826 | 25 | 9.937206 | 43 | 0.062751 | 9.878602 | 18 | 40 | 2 8.4 |
| | 30 | 9.815851 | 24 | 9.937249 | 42 | 0.062709 | 9.878583 | 19 | 30 | 3 12.6 |
| | 40 | 9.815875 | 24 | 9.937291 | 43 | 0.062666 | 9.878565 | 18 | 20 | 4 16.8 |
| | 50 | 9.815899 | 25 | 9.937334 | 43 | 0.062623 | 9.878547 | 18 | 10 | 5 21.0 |
| 53 | 0 | 9.815924 | 24 | 9.937377 | 42 | 0.062581 | 9.878529 | 18 | 0 | 6 25.2 |
| | 10 | 9.815948 | 24 | 9.937419 | 43 | 0.062538 | 9.878511 | 18 | 50 | 7 29.4 |
| | 20 | 9.815972 | 24 | 9.937462 | 42 | 0.062496 | 9.878492 | 19 | 40 | 8 33.6 |
| | 30 | 9.815996 | 24 | 9.937504 | 43 | 0.062453 | 9.878474 | 18 | 30 | 9 37.8 |
| | 40 | 9.816021 | 25 | 9.937547 | 42 | 0.062411 | 9.878456 | 18 | 20 | |
| | 50 | 9.816045 | 24 | 9.937589 | 43 | 0.062368 | 9.878438 | 18 | 10 | * |
| 54 | 0 | 9.816069 | 24 | 9.937632 | 42 | 0.062326 | 9.878419 | 19 | 0 | |
| | 10 | 9.816094 | 25 | 9.937674 | 43 | 0.062283 | 9.878401 | 18 | 50 | 25 |
| | 20 | 9.816118 | 24 | 9.937717 | 42 | 0.062241 | 9.878383 | 18 | 40 | 1 2.5 |
| | 30 | 9.816142 | 24 | 9.937759 | 43 | 0.062198 | 9.878365 | 18 | 30 | 2 5.0 |
| | 40 | 9.816167 | 25 | 9.937802 | 43 | 0.062155 | 9.878346 | 19 | 20 | 3 7.5 |
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| 55 | 0 | 9.816215 | 25 | 9.937887 | 43 | 0.062070 | 9.878310 | 18 | 0 | 5 12.5 |
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| | 40 | 9.816312 | 24 | 9.938057 | 43 | 0.061900 | 9.878237 | 18 | 20 | 9 22.5 |
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| 56 | 0 | 9.816361 | 24 | 9.938142 | 43 | 0.061815 | 9.878200 | 19 | 0 | 24 |
| | 10 | 9.816385 | 24 | 9.938185 | 42 | 0.061773 | 9.878182 | 18 | 50 | 1 2.4 |
| | 20 | 9.816409 | 24 | 9.938227 | 43 | 0.061730 | 9.878164 | 18 | 40 | 2 4.8 |
| | 30 | 9.816434 | 25 | 9.938270 | 42 | 0.061688 | 9.878146 | 18 | 30 | 3 7.2 |
| | 40 | 9.816458 | 24 | 9.938312 | 43 | 0.061645 | 9.878127 | 19 | 20 | 4 9.6 |
| | 50 | 9.816482 | 24 | 9.938355 | 43 | 0.061602 | 9.878108 | 18 | 10 | 5 12.0 |
| 57 | 0 | 9.816507 | 25 | 9.938398 | 42 | 0.061560 | 9.878091 | 18 | 0 | 6 14.4 |
| | 10 | 9.816531 | 24 | 9.938440 | 43 | 0.061517 | 9.878072 | 19 | 50 | 7 16.8 |
| | 20 | 9.816555 | 24 | 9.938483 | 42 | 0.061475 | 9.878054 | 18 | 40 | 8 19.2 |
| | 30 | 9.816579 | 25 | 9.938525 | 43 | 0.061432 | 9.878036 | 18 | 30 | 9 21.6 |
| | 40 | 9.816604 | 24 | 9.938568 | 42 | 0.061390 | 9.878018 | 18 | 20 | |
| | 50 | 9.816628 | 24 | 9.938610 | 43 | 0.061347 | 9.877999 | 19 | 10 | * |
| 58 | 0 | 9.816652 | 24 | 9.938653 | 42 | 0.061305 | 9.877981 | 18 | 0 | |
| | 10 | 9.816676 | 24 | 9.938695 | 43 | 0.061262 | 9.877963 | 18 | 50 | 19 |
| | 20 | 9.816701 | 25 | 9.938738 | 42 | 0.061220 | 9.877945 | 18 | 40 | 1 1.0 |
| | 30 | 9.816725 | 24 | 9.938780 | 43 | 0.061177 | 9.877926 | 19 | 30 | 2 3.8 |
| | 40 | 9.816749 | 24 | 9.938823 | 42 | 0.061135 | 9.877908 | 18 | 20 | 3 5.7 |
| | 50 | 9.816773 | 25 | 9.938865 | 43 | 0.061092 | 9.877890 | 18 | 10 | 4 7.6 |
| 59 | 0 | 9.816798 | 24 | 9.938908 | 42 | 0.061050 | 9.877871 | 19 | 0 | 5 9.5 |
| | 10 | 9.816822 | 24 | 9.938950 | 43 | 0.061007 | 9.877853 | 18 | 50 | 6 11.4 |
| | 20 | 9.816846 | 24 | 9.938993 | 42 | 0.060965 | 9.877835 | 18 | 40 | 7 13.3 |
| | 30 | 9.816870 | 24 | 9.939035 | 43 | 0.060922 | 9.877816 | 19 | 30 | 8 15.2 |
| | 40 | 9.816894 | 24 | 9.939078 | 42 | 0.060879 | 9.877798 | 18 | 20 | 9 17.1 |
| | 50 | 9.816919 | 25 | 9.939121 | 43 | 0.060837 | 9.877780 | 18 | 10 | |
| 60 | 0 | 9.816943 | 24 | 9.939163 | 42 | | | 18 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

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| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 0 | 0 | 9.816943 | 24 | 9.939163 | 43 | 0.060837 | 9.877780 | 18 | 0 | 60 |
| | 10 | 9.816967 | 24 | 9.939206 | 43 | 0.060794 | 9.877762 | 19 | 50 | |
| | 20 | 9.816991 | 24 | 9.939248 | 42 | 0.060752 | 9.877743 | 18 | 40 | |
| | 30 | 9.817016 | 24 | 9.939291 | 42 | 0.060709 | 9.877725 | 18 | 30 | |
| | 40 | 9.817040 | 24 | 9.939333 | 42 | 0.060667 | 9.877707 | 19 | 20 | |
| | 50 | 9.817064 | 24 | 9.939376 | 43 | 0.060624 | 9.877688 | 18 | 10 | |
| 1 | 0 | 9.817088 | 24 | 9.939418 | 42 | 0.060582 | 9.877670 | 18 | 0 | 59 |
| | 10 | 9.817112 | 24 | 9.939461 | 43 | 0.060539 | 9.877652 | 19 | 50 | |
| | 20 | 9.817137 | 25 | 9.939503 | 42 | 0.060497 | 9.877633 | 18 | 40 | |
| | 30 | 9.817161 | 24 | 9.939546 | 42 | 0.060454 | 9.877615 | 18 | 30 | |
| | 40 | 9.817185 | 24 | 9.939588 | 42 | 0.060412 | 9.877597 | 19 | 20 | |
| | 50 | 9.817209 | 24 | 9.939631 | 43 | 0.060369 | 9.877578 | 18 | 10 | |
| 2 | 0 | 9.817233 | 25 | 9.939673 | 42 | 0.060327 | 9.877560 | 18 | 0 | 58 |
| | 10 | 9.817258 | 25 | 9.939716 | 43 | 0.060284 | 9.877542 | 19 | 50 | |
| | 20 | 9.817282 | 24 | 9.939758 | 42 | 0.060242 | 9.877523 | 18 | 40 | |
| | 30 | 9.817306 | 24 | 9.939801 | 42 | 0.060199 | 9.877505 | 18 | 30 | |
| | 40 | 9.817330 | 24 | 9.939843 | 42 | 0.060157 | 9.877487 | 19 | 20 | |
| | 50 | 9.817354 | 24 | 9.939886 | 43 | 0.060114 | 9.877468 | 18 | 10 | |
| 3 | 0 | 9.817379 | 25 | 9.939928 | 42 | 0.060072 | 9.877450 | 18 | 0 | 57 |
| | 10 | 9.817403 | 24 | 9.939971 | 43 | 0.060029 | 9.877432 | 19 | 50 | |
| | 20 | 9.817427 | 24 | 9.940013 | 42 | 0.059987 | 9.877413 | 18 | 40 | |
| | 30 | 9.817451 | 24 | 9.940056 | 43 | 0.059944 | 9.877395 | 18 | 30 | |
| | 40 | 9.817475 | 24 | 9.940098 | 42 | 0.059902 | 9.877377 | 19 | 20 | |
| | 50 | 9.817499 | 24 | 9.940141 | 43 | 0.059859 | 9.877358 | 18 | 10 | |
| 4 | 0 | 9.817524 | 25 | 9.940183 | 42 | 0.059817 | 9.877340 | 18 | 0 | 56 |
| | 10 | 9.817548 | 24 | 9.940226 | 43 | 0.059774 | 9.877322 | 19 | 50 | |
| | 20 | 9.817572 | 24 | 9.940268 | 42 | 0.059732 | 9.877303 | 18 | 40 | |
| | 30 | 9.817596 | 24 | 9.940311 | 43 | 0.059689 | 9.877285 | 18 | 30 | |
| | 40 | 9.817620 | 24 | 9.940354 | 43 | 0.059646 | 9.877267 | 19 | 20 | |
| | 50 | 9.817644 | 24 | 9.940396 | 42 | 0.059604 | 9.877248 | 18 | 10 | |
| 5 | 0 | 9.817668 | 24 | 9.940439 | 43 | 0.059561 | 9.877230 | 18 | 0 | 55 |
| | 10 | 9.817693 | 25 | 9.940481 | 42 | 0.059519 | 9.877212 | 19 | 50 | |
| | 20 | 9.817717 | 24 | 9.940524 | 43 | 0.059476 | 9.877193 | 18 | 40 | |
| | 30 | 9.817741 | 24 | 9.940566 | 42 | 0.059434 | 9.877175 | 18 | 30 | |
| | 40 | 9.817765 | 24 | 9.940609 | 43 | 0.059391 | 9.877156 | 19 | 20 | |
| | 50 | 9.817789 | 24 | 9.940651 | 42 | 0.059349 | 9.877138 | 18 | 10 | |
| 6 | 0 | 9.817813 | 24 | 9.940694 | 43 | 0.059306 | 9.877120 | 19 | 0 | 54 |
| | 10 | 9.817837 | 24 | 9.940736 | 42 | 0.059264 | 9.877101 | 18 | 50 | |
| | 20 | 9.817862 | 25 | 9.940779 | 43 | 0.059221 | 9.877083 | 18 | 40 | |
| | 30 | 9.817886 | 24 | 9.940821 | 42 | 0.059179 | 9.877065 | 19 | 30 | |
| | 40 | 9.817910 | 24 | 9.940864 | 43 | 0.059136 | 9.877046 | 18 | 20 | |
| | 50 | 9.817934 | 24 | 9.940906 | 42 | 0.059094 | 9.877028 | 18 | 10 | |
| 7 | 0 | 9.817958 | 24 | 9.940949 | 43 | 0.059051 | 9.877010 | 19 | 0 | 53 |
| | 10 | 9.817982 | 24 | 9.940991 | 42 | 0.059009 | 9.876991 | 18 | 50 | |
| | 20 | 9.818006 | 24 | 9.941034 | 43 | 0.058966 | 9.876973 | 18 | 40 | |
| | 30 | 9.818030 | 24 | 9.941076 | 42 | 0.058924 | 9.876954 | 19 | 30 | |
| | 40 | 9.818055 | 25 | 9.941119 | 43 | 0.058881 | 9.876936 | 18 | 20 | |
| | 50 | 9.818079 | 24 | 9.941161 | 42 | 0.058839 | 9.876918 | 19 | 10 | |
| 8 | 0 | 9.818103 | 24 | 9.941204 | 43 | 0.058796 | 9.876899 | 18 | 0 | 52 |
| | 10 | 9.818127 | 24 | 9.941246 | 42 | 0.058754 | 9.876881 | 19 | 50 | |
| | 20 | 9.818151 | 24 | 9.941289 | 43 | 0.058711 | 9.876862 | 18 | 40 | |
| | 30 | 9.818175 | 24 | 9.941331 | 42 | 0.058669 | 9.876844 | 18 | 30 | |
| | 40 | 9.818199 | 24 | 9.941374 | 43 | 0.058626 | 9.876826 | 19 | 20 | |
| | 50 | 9.818223 | 24 | 9.941416 | 42 | 0.058584 | 9.876807 | 18 | 10 | |
| 9 | 0 | 9.818247 | 24 | 9.941459 | 43 | 0.058541 | 9.876789 | 19 | 0 | 51 |
| | 10 | 9.818272 | 25 | 9.941501 | 42 | 0.058499 | 9.876770 | 18 | 50 | |
| | 20 | 9.818296 | 24 | 9.941544 | 43 | 0.058456 | 9.876752 | 18 | 40 | |
| | 30 | 9.818320 | 24 | 9.941586 | 42 | 0.058414 | 9.876734 | 18 | 30 | |
| | 40 | 9.818344 | 24 | 9.941628 | 43 | 0.058372 | 9.876715 | 19 | 20 | |
| | 50 | 9.818368 | 24 | 9.941671 | 42 | 0.058330 | 9.876697 | 18 | 10 | |
| 10 | 0 | 9.818392 | 24 | 9.941713 | 42 | 0.058287 | 9.876678 | 19 | 0 | 50 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 10 | o | 9.818392 | 24 | 9.941713 | 43 | 0.058287 | 9.876678 | 18 | o | 50 |
| | 10 | 9.818416 | 24 | 9.941756 | 43 | 0.058244 | 9.876660 | 18 | 50 | 43 |
| | 20 | 9.818440 | 24 | 9.941798 | 42 | 0.058202 | 9.876642 | 18 | 40 | 1 4.3 |
| | 30 | 9.818464 | 24 | 9.941841 | 42 | 0.058159 | 9.876623 | 18 | 30 | 2 8.6 |
| | 40 | 9.818488 | 24 | 9.941883 | 42 | 0.058117 | 9.876605 | 18 | 20 | 3 12.9 |
| | 50 | 9.818512 | 24 | 9.941926 | 43 | 0.058074 | 9.876586 | 18 | 10 | 4 17.2 |
| 11 | o | 9.818536 | 24 | 9.941968 | 42 | 0.058032 | 9.876568 | 18 | o | 49 |
| | 10 | 9.818560 | 24 | 9.942011 | 43 | 0.057989 | 9.876550 | 18 | 50 | 5 21.5 |
| | 20 | 9.818584 | 24 | 9.942053 | 42 | 0.057947 | 9.876531 | 18 | 40 | 6 25.8 |
| | 30 | 9.818609 | 25 | 9.942096 | 42 | 0.057904 | 9.876513 | 18 | 30 | 7 30.1 |
| | 40 | 9.818633 | 24 | 9.942138 | 42 | 0.057862 | 9.876494 | 18 | 20 | 8 34.4 |
| | 50 | 9.818657 | 24 | 9.942181 | 43 | 0.057819 | 9.876476 | 18 | 10 | 9 38.7 |
| 12 | o | 9.818681 | 24 | 9.942223 | 42 | 0.057777 | 9.876457 | 18 | o | 48 |
| | 10 | 9.818705 | 24 | 9.942266 | 43 | 0.057734 | 9.876439 | 18 | 50 | 1 4.2 |
| | 20 | 9.818729 | 24 | 9.942308 | 42 | 0.057692 | 9.876421 | 18 | 40 | 2 8.4 |
| | 30 | 9.818753 | 24 | 9.942351 | 42 | 0.057649 | 9.876402 | 18 | 30 | 3 12.6 |
| | 40 | 9.818777 | 24 | 9.942393 | 42 | 0.057607 | 9.876384 | 18 | 20 | 4 16.8 |
| | 50 | 9.818801 | 24 | 9.942436 | 43 | 0.057564 | 9.876365 | 18 | 10 | 5 21.0 |
| 13 | o | 9.818825 | 24 | 9.942478 | 42 | 0.057522 | 9.876347 | 18 | o | 47 |
| | 10 | 9.818849 | 24 | 9.942521 | 43 | 0.057479 | 9.876328 | 18 | 50 | 6 25.2 |
| | 20 | 9.818873 | 24 | 9.942563 | 42 | 0.057437 | 9.876310 | 18 | 40 | 7 29.4 |
| | 30 | 9.818897 | 24 | 9.942606 | 42 | 0.057394 | 9.876291 | 18 | 30 | 8 33.6 |
| | 40 | 9.818921 | 24 | 9.942648 | 42 | 0.057352 | 9.876273 | 18 | 20 | 9 37.8 |
| | 50 | 9.818945 | 24 | 9.942691 | 43 | 0.057310 | 9.876255 | 18 | 10 | |
| 14 | o | 9.818969 | 24 | 9.942733 | 42 | 0.057267 | 9.876236 | 18 | o | 46 |
| | 10 | 9.818993 | 24 | 9.942775 | 43 | 0.057224 | 9.876218 | 18 | 50 | * |
| | 20 | 9.819017 | 24 | 9.942818 | 42 | 0.057182 | 9.876199 | 18 | 40 | 24 |
| | 30 | 9.819041 | 24 | 9.942861 | 42 | 0.057139 | 9.876181 | 18 | 30 | 1 2.4 |
| | 40 | 9.819065 | 24 | 9.942903 | 42 | 0.057097 | 9.876162 | 18 | 20 | 2 4.8 |
| | 50 | 9.819089 | 24 | 9.942945 | 42 | 0.057055 | 9.876144 | 18 | 10 | 3 7.2 |
| 15 | o | 9.819113 | 24 | 9.942988 | 43 | 0.057012 | 9.876125 | 18 | o | 45 |
| | 10 | 9.819137 | 24 | 9.943030 | 42 | 0.056970 | 9.876107 | 18 | 50 | 4 9.6 |
| | 20 | 9.819161 | 24 | 9.943073 | 43 | 0.056927 | 9.876088 | 18 | 40 | 5 12.0 |
| | 30 | 9.819185 | 24 | 9.943115 | 42 | 0.056885 | 9.876070 | 18 | 30 | 6 14.4 |
| | 40 | 9.819209 | 24 | 9.943158 | 42 | 0.056842 | 9.876051 | 18 | 20 | 7 16.8 |
| | 50 | 9.819233 | 24 | 9.943200 | 42 | 0.056800 | 9.876033 | 18 | 10 | 8 19.2 |
| 16 | o | 9.819257 | 24 | 9.943243 | 43 | 0.056757 | 9.876014 | 18 | o | 44 |
| | 10 | 9.819281 | 24 | 9.943285 | 42 | 0.056715 | 9.875996 | 18 | 50 | 9 21.6 |
| | 20 | 9.819305 | 24 | 9.943328 | 43 | 0.056672 | 9.875978 | 18 | 40 | 23 |
| | 30 | 9.819329 | 24 | 9.943370 | 42 | 0.056630 | 9.875959 | 18 | 30 | 1 2.3 |
| | 40 | 9.819353 | 24 | 9.943413 | 42 | 0.056587 | 9.875941 | 18 | 20 | 2 4.6 |
| | 50 | 9.819377 | 24 | 9.943455 | 42 | 0.056545 | 9.875922 | 18 | 10 | 3 6.9 |
| 17 | o | 9.819401 | 24 | 9.943498 | 43 | 0.056502 | 9.875904 | 18 | o | 43 |
| | 10 | 9.819425 | 24 | 9.943540 | 42 | 0.056460 | 9.875885 | 18 | 50 | 4 9.2 |
| | 20 | 9.819449 | 24 | 9.943583 | 43 | 0.056417 | 9.875867 | 18 | 40 | 5 11.5 |
| | 30 | 9.819473 | 24 | 9.943625 | 42 | 0.056375 | 9.875848 | 18 | 30 | 6 13.8 |
| | 40 | 9.819497 | 24 | 9.943667 | 42 | 0.056333 | 9.875830 | 18 | 20 | 7 16.1 |
| | 50 | 9.819521 | 24 | 9.943710 | 43 | 0.056290 | 9.875811 | 18 | 10 | 8 18.4 |
| 18 | o | 9.819545 | 24 | 9.943752 | 42 | 0.056248 | 9.875793 | 18 | o | 42 |
| | 10 | 9.819569 | 24 | 9.943795 | 43 | 0.056205 | 9.875774 | 18 | 50 | * |
| | 20 | 9.819593 | 24 | 9.943837 | 42 | 0.056163 | 9.875756 | 18 | 40 | 19 |
| | 30 | 9.819617 | 24 | 9.943880 | 43 | 0.056120 | 9.875737 | 18 | 30 | 1 1.9 |
| | 40 | 9.819641 | 24 | 9.943922 | 42 | 0.056078 | 9.875719 | 18 | 20 | 2 3.8 |
| | 50 | 9.819665 | 24 | 9.943965 | 42 | 0.056035 | 9.875700 | 18 | 10 | 3 5.7 |
| 19 | o | 9.819689 | 24 | 9.944007 | 42 | 0.055993 | 9.875682 | 18 | o | 41 |
| | 10 | 9.819713 | 24 | 9.944050 | 43 | 0.055950 | 9.875663 | 18 | 50 | 4 7.6 |
| | 20 | 9.819737 | 24 | 9.944092 | 42 | 0.055908 | 9.875645 | 18 | 40 | 5 9.5 |
| | 30 | 9.819761 | 24 | 9.944135 | 43 | 0.055865 | 9.875626 | 18 | 30 | 6 11.4 |
| | 40 | 9.819785 | 24 | 9.944177 | 42 | 0.055823 | 9.875608 | 18 | 20 | 7 13.3 |
| | 50 | 9.819809 | 24 | 9.944219 | 42 | 0.055781 | 9.875589 | 18 | 10 | 8 15.2 |
| 20 | o | 9.819832 | 23 | 9.944262 | 43 | 0.055738 | 9.875571 | 18 | o | 40 |

43
1 4.3
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9 16.2

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 20 | 0 | 9.819832 | 24 | 9.944262 | 42 | 0.055738 | 9.875571 | 19 | 0 | 40 |
| | 10 | 9.819856 | 24 | 9.944304 | 43 | 0.055696 | 9.875552 | 18 | 50 | |
| | 20 | 9.819880 | 24 | 9.944347 | 42 | 0.055653 | 9.875534 | 19 | 30 | |
| | 30 | 9.819904 | 24 | 9.944389 | 42 | 0.055611 | 9.875515 | 19 | 40 | |
| | 40 | 9.819928 | 24 | 9.944432 | 43 | 0.055568 | 9.875496 | 19 | 20 | |
| | 50 | 9.819952 | 24 | 9.944474 | 42 | 0.055526 | 9.875478 | 18 | 10 | |
| 21 | 0 | 9.819976 | 24 | 9.944517 | 43 | 0.055483 | 9.875459 | 19 | 0 | 39 |
| | 10 | 9.820000 | 24 | 9.944559 | 42 | 0.055441 | 9.875441 | 18 | 50 | |
| | 20 | 9.820024 | 24 | 9.944602 | 43 | 0.055398 | 9.875422 | 18 | 30 | |
| | 30 | 9.820048 | 24 | 9.944644 | 42 | 0.055356 | 9.875404 | 19 | 40 | |
| | 40 | 9.820072 | 24 | 9.944686 | 42 | 0.055314 | 9.875385 | 19 | 20 | |
| | 50 | 9.820096 | 24 | 9.944729 | 43 | 0.055271 | 9.875367 | 18 | 10 | |
| 22 | 0 | 9.820120 | 24 | 9.944771 | 42 | 0.055229 | 9.875348 | 19 | 0 | 38 |
| | 10 | 9.820143 | 23 | 9.944814 | 43 | 0.055186 | 9.875330 | 18 | 50 | |
| | 20 | 9.820167 | 24 | 9.944856 | 42 | 0.055144 | 9.875311 | 18 | 30 | |
| | 30 | 9.820191 | 24 | 9.944899 | 43 | 0.055101 | 9.875293 | 19 | 40 | |
| | 40 | 9.820215 | 24 | 9.944941 | 42 | 0.055059 | 9.875274 | 19 | 20 | |
| | 50 | 9.820239 | 24 | 9.944984 | 43 | 0.055016 | 9.875255 | 18 | 10 | |
| 23 | 0 | 9.820263 | 24 | 9.945026 | 42 | 0.054974 | 9.875237 | 19 | 0 | 37 |
| | 10 | 9.820287 | 24 | 9.945069 | 43 | 0.054931 | 9.875218 | 19 | 50 | |
| | 20 | 9.820311 | 24 | 9.945111 | 42 | 0.054889 | 9.875200 | 18 | 30 | |
| | 30 | 9.820335 | 24 | 9.945153 | 42 | 0.054847 | 9.875181 | 19 | 40 | |
| | 40 | 9.820359 | 23 | 9.945196 | 43 | 0.054804 | 9.875163 | 18 | 20 | |
| | 50 | 9.820382 | 24 | 9.945238 | 42 | 0.054762 | 9.875144 | 19 | 10 | |
| 24 | 0 | 9.820406 | 24 | 9.945281 | 43 | 0.054720 | 9.875125 | 18 | 0 | 36 |
| | 10 | 9.820430 | 24 | 9.945323 | 42 | 0.054677 | 9.875107 | 19 | 50 | |
| | 20 | 9.820454 | 24 | 9.945366 | 43 | 0.054634 | 9.875088 | 18 | 30 | |
| | 30 | 9.820478 | 24 | 9.945408 | 42 | 0.054592 | 9.875070 | 19 | 40 | |
| | 40 | 9.820502 | 24 | 9.945451 | 43 | 0.054549 | 9.875051 | 19 | 20 | |
| | 50 | 9.820526 | 24 | 9.945493 | 42 | 0.054507 | 9.875033 | 18 | 10 | |
| 25 | 0 | 9.820550 | 24 | 9.945535 | 42 | 0.054465 | 9.875014 | 19 | 0 | 35 |
| | 10 | 9.820573 | 23 | 9.945578 | 43 | 0.054422 | 9.874996 | 18 | 50 | |
| | 20 | 9.820597 | 24 | 9.945620 | 42 | 0.054380 | 9.874977 | 19 | 40 | |
| | 30 | 9.820621 | 24 | 9.945663 | 43 | 0.054337 | 9.874958 | 19 | 30 | |
| | 40 | 9.820645 | 24 | 9.945705 | 42 | 0.054295 | 9.874940 | 18 | 20 | |
| | 50 | 9.820669 | 24 | 9.945748 | 43 | 0.054252 | 9.874921 | 19 | 10 | |
| 26 | 0 | 9.820693 | 24 | 9.945790 | 42 | 0.054210 | 9.874903 | 18 | 0 | 34 |
| | 10 | 9.820717 | 24 | 9.945832 | 42 | 0.054168 | 9.874884 | 19 | 50 | |
| | 20 | 9.820740 | 23 | 9.945875 | 43 | 0.054125 | 9.874866 | 18 | 40 | |
| | 30 | 9.820764 | 24 | 9.945917 | 42 | 0.054083 | 9.874847 | 19 | 30 | |
| | 40 | 9.820788 | 24 | 9.945960 | 43 | 0.054040 | 9.874828 | 19 | 20 | |
| | 50 | 9.820812 | 24 | 9.946002 | 42 | 0.053998 | 9.874809 | 18 | 10 | |
| 27 | 0 | 9.820836 | 24 | 9.946045 | 43 | 0.053955 | 9.874790 | 19 | 0 | 33 |
| | 10 | 9.820860 | 24 | 9.946087 | 42 | 0.053913 | 9.874773 | 18 | 50 | |
| | 20 | 9.820883 | 23 | 9.946130 | 43 | 0.053870 | 9.874754 | 19 | 40 | |
| | 30 | 9.820907 | 24 | 9.946172 | 42 | 0.053828 | 9.874735 | 19 | 30 | |
| | 40 | 9.820931 | 24 | 9.946214 | 42 | 0.053786 | 9.874717 | 18 | 20 | |
| | 50 | 9.820955 | 24 | 9.946257 | 43 | 0.053743 | 9.874698 | 19 | 10 | |
| 28 | 0 | 9.820979 | 24 | 9.946299 | 42 | 0.053701 | 9.874679 | 18 | 0 | 32 |
| | 10 | 9.821003 | 24 | 9.946342 | 43 | 0.053658 | 9.874661 | 19 | 50 | |
| | 20 | 9.821026 | 23 | 9.946384 | 42 | 0.053616 | 9.874642 | 18 | 40 | |
| | 30 | 9.821050 | 24 | 9.946427 | 43 | 0.053573 | 9.874624 | 19 | 30 | |
| | 40 | 9.821074 | 24 | 9.946469 | 42 | 0.053531 | 9.874605 | 19 | 20 | |
| | 50 | 9.821098 | 24 | 9.946511 | 42 | 0.053489 | 9.874586 | 19 | 10 | |
| 29 | 0 | 9.821122 | 24 | 9.946554 | 43 | 0.053446 | 9.874568 | 18 | 0 | 31 |
| | 10 | 9.821146 | 24 | 9.946596 | 42 | 0.053404 | 9.874549 | 19 | 50 | |
| | 20 | 9.821169 | 23 | 9.946639 | 43 | 0.053361 | 9.874531 | 18 | 40 | |
| | 30 | 9.821193 | 24 | 9.946681 | 42 | 0.053319 | 9.874512 | 19 | 30 | |
| | 40 | 9.821217 | 24 | 9.946724 | 43 | 0.053276 | 9.874493 | 19 | 20 | |
| | 50 | 9.821241 | 24 | 9.946766 | 42 | 0.053234 | 9.874474 | 18 | 10 | |
| 30 | 0 | 9.821265 | 24 | 9.946808 | 42 | 0.053192 | 9.874455 | 19 | 0 | 30 |
| | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|------|-----------|----------|----|----|--------|
| 30 | 0 | 9.821265 | 23 | 9.946808 | 43 | 0.051192 | 9.874356 | 18 | 0 | 30 |
| | 10 | 9.821288 | 24 | 9.946851 | 42 | 0.051149 | 9.874333 | 19 | 50 | 43 |
| | 20 | 9.821312 | 24 | 9.946893 | 42 | 0.051107 | 9.874419 | 19 | 40 | 1 4.3 |
| | 30 | 9.821336 | 24 | 9.946936 | 43 | 0.051064 | 9.874400 | 18 | 30 | 2 8.6 |
| | 40 | 9.821360 | 24 | 9.946978 | 42 | 0.051022 | 9.874382 | 18 | 20 | 3 12.9 |
| | 50 | 9.821384 | 24 | 9.947021 | 43 | 0.050979 | 9.874363 | 19 | 10 | 4 17.2 |
| 31 | 0 | 9.821407 | 23 | 9.947063 | 42 | 0.050937 | 9.874344 | 19 | 0 | 5 21.5 |
| | 10 | 9.821431 | 24 | 9.947105 | 42 | 0.050895 | 9.874326 | 18 | 50 | 6 25.8 |
| | 20 | 9.821455 | 24 | 9.947148 | 43 | 0.050852 | 9.874307 | 19 | 40 | 7 30.1 |
| | 30 | 9.821479 | 23 | 9.947190 | 42 | 0.050810 | 9.874288 | 18 | 30 | 8 34.4 |
| | 40 | 9.821502 | 23 | 9.947233 | 43 | 0.050767 | 9.874270 | 18 | 20 | 9 38.7 |
| | 50 | 9.821526 | 24 | 9.947275 | 42 | 0.050725 | 9.874251 | 19 | 10 | |
| 32 | 0 | 9.821550 | 24 | 9.947318 | 43 | 0.050682 | 9.874232 | 19 | 0 | 28 |
| | 10 | 9.821574 | 24 | 9.947360 | 42 | 0.050640 | 9.874214 | 18 | 50 | 1 4.2 |
| | 20 | 9.821598 | 24 | 9.947402 | 42 | 0.050598 | 9.874195 | 19 | 40 | 2 8.4 |
| | 30 | 9.821621 | 23 | 9.947445 | 43 | 0.050555 | 9.874177 | 18 | 30 | 3 12.6 |
| | 40 | 9.821645 | 24 | 9.947487 | 42 | 0.050513 | 9.874158 | 19 | 20 | 4 16.8 |
| | 50 | 9.821669 | 24 | 9.947530 | 43 | 0.050470 | 9.874139 | 19 | 10 | 5 21.0 |
| 33 | 0 | 9.821693 | 24 | 9.947572 | 42 | 0.050428 | 9.874121 | 18 | 0 | 6 25.2 |
| | 10 | 9.821716 | 23 | 9.947614 | 42 | 0.050386 | 9.874102 | 19 | 50 | 7 29.4 |
| | 20 | 9.821740 | 24 | 9.947657 | 43 | 0.050343 | 9.874083 | 19 | 40 | 8 33.6 |
| | 30 | 9.821764 | 24 | 9.947699 | 42 | 0.050301 | 9.874065 | 18 | 30 | 9 37.8 |
| | 40 | 9.821788 | 24 | 9.947742 | 43 | 0.050258 | 9.874046 | 19 | 20 | |
| | 50 | 9.821811 | 23 | 9.947784 | 42 | 0.050216 | 9.874027 | 19 | 10 | |
| 34 | 0 | 9.821835 | 24 | 9.947827 | 43 | 0.050173 | 9.874007 | 18 | 0 | 26 |
| | 10 | 9.821859 | 24 | 9.947869 | 42 | 0.050131 | 9.873988 | 19 | 50 | * |
| | 20 | 9.821883 | 24 | 9.947911 | 42 | 0.050089 | 9.873971 | 19 | 40 | 24 |
| | 30 | 9.821906 | 23 | 9.947954 | 43 | 0.050046 | 9.873953 | 18 | 30 | 1 2.4 |
| | 40 | 9.821930 | 24 | 9.947996 | 42 | 0.050004 | 9.873934 | 19 | 20 | 2 4.8 |
| | 50 | 9.821954 | 24 | 9.948039 | 43 | 0.0501961 | 9.873915 | 19 | 10 | 3 7.2 |
| 35 | 0 | 9.821977 | 23 | 9.948081 | 42 | 0.0501919 | 9.873896 | 19 | 0 | 4 9.6 |
| | 10 | 9.822001 | 24 | 9.948123 | 42 | 0.0501877 | 9.873878 | 18 | 50 | 5 12.0 |
| | 20 | 9.822025 | 24 | 9.948166 | 43 | 0.0501834 | 9.873859 | 19 | 40 | 6 14.4 |
| | 30 | 9.822049 | 24 | 9.948208 | 42 | 0.0501792 | 9.873840 | 19 | 30 | 7 16.8 |
| | 40 | 9.822072 | 23 | 9.948251 | 43 | 0.0501749 | 9.873822 | 18 | 20 | 8 19.2 |
| | 50 | 9.822096 | 24 | 9.948293 | 42 | 0.0501707 | 9.873803 | 19 | 10 | 9 21.6 |
| 36 | 0 | 9.822120 | 24 | 9.948335 | 42 | 0.0501665 | 9.873784 | 19 | 0 | 24 |
| | 10 | 9.822144 | 24 | 9.948378 | 43 | 0.0501622 | 9.873766 | 18 | 50 | 23 |
| | 20 | 9.822167 | 23 | 9.948420 | 42 | 0.0501580 | 9.873747 | 19 | 40 | 1 2.3 |
| | 30 | 9.822191 | 24 | 9.948463 | 43 | 0.0501537 | 9.873728 | 19 | 30 | 2 4.6 |
| | 40 | 9.822215 | 24 | 9.948505 | 42 | 0.0501495 | 9.873710 | 18 | 20 | 3 6.9 |
| | 50 | 9.822238 | 23 | 9.948548 | 43 | 0.0501452 | 9.873691 | 19 | 10 | 4 9.2 |
| 37 | 0 | 9.822262 | 24 | 9.948590 | 42 | 0.0501410 | 9.873672 | 19 | 0 | 5 11.5 |
| | 10 | 9.822286 | 24 | 9.948632 | 42 | 0.0501368 | 9.873653 | 19 | 50 | 6 13.8 |
| | 20 | 9.822309 | 23 | 9.948675 | 43 | 0.0501325 | 9.873635 | 18 | 40 | 7 16.1 |
| | 30 | 9.822333 | 24 | 9.948717 | 42 | 0.0501283 | 9.873616 | 19 | 30 | 8 18.4 |
| | 40 | 9.822357 | 24 | 9.948760 | 43 | 0.0501240 | 9.873597 | 19 | 20 | 9 20.7 |
| | 50 | 9.822381 | 24 | 9.948802 | 42 | 0.0501198 | 9.873579 | 18 | 10 | |
| 38 | 0 | 9.822404 | 23 | 9.948844 | 42 | 0.0501156 | 9.873560 | 19 | 0 | 22 |
| | 10 | 9.822428 | 24 | 9.948887 | 43 | 0.0501113 | 9.873541 | 19 | 50 | * |
| | 20 | 9.822452 | 24 | 9.948929 | 42 | 0.0501071 | 9.873522 | 19 | 40 | 19 |
| | 30 | 9.822475 | 23 | 9.948972 | 43 | 0.0501028 | 9.873504 | 18 | 30 | 1 1.9 |
| | 40 | 9.822499 | 24 | 9.949014 | 42 | 0.0500986 | 9.873485 | 19 | 20 | 2 3.8 |
| | 50 | 9.822523 | 24 | 9.949056 | 42 | 0.0500944 | 9.873466 | 19 | 10 | 3 5.7 |
| 39 | 0 | 9.822546 | 23 | 9.949099 | 43 | 0.0500901 | 9.873448 | 19 | 0 | 4 7.6 |
| | 10 | 9.822570 | 24 | 9.949141 | 42 | 0.0500859 | 9.873429 | 19 | 50 | 5 9.5 |
| | 20 | 9.822594 | 24 | 9.949184 | 43 | 0.0500816 | 9.873410 | 19 | 40 | 6 11.4 |
| | 30 | 9.822617 | 23 | 9.949226 | 42 | 0.0500774 | 9.873391 | 18 | 30 | 7 13.3 |
| | 40 | 9.822641 | 24 | 9.949268 | 42 | 0.0500732 | 9.873373 | 18 | 20 | 8 15.2 |
| | 50 | 9.822665 | 24 | 9.949311 | 43 | 0.0500689 | 9.873354 | 19 | 10 | 9 17.1 |
| 40 | 0 | 9.822688 | 23 | 9.949353 | 42 | 0.0500647 | 9.873335 | 19 | 0 | 20 |

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 40 | 0 | 9.822688 | 24 | 9.949353 | 43 | 0.050647 | 9.872225 | 19 | 0 | 20 |
| 1 4.3 | 10 | 9.822712 | 24 | 9.949396 | 43 | 0.050667 | 9.872245 | 18 | 50 | |
| 2 8.6 | 20 | 9.822736 | 24 | 9.949438 | 42 | 0.050562 | 9.873298 | 19 | 50 | |
| 3 12.9 | 30 | 9.822759 | 23 | 9.949480 | 42 | 0.050520 | 9.873279 | 19 | 50 | |
| 4 17.2 | 40 | 9.822783 | 24 | 9.949523 | 43 | 0.050477 | 9.873260 | 19 | 20 | |
| 5 21.5 | 50 | 9.822807 | 23 | 9.949565 | 43 | 0.050435 | 9.873241 | 19 | 10 | |
| 6 25.8 | 41 | 0 | 23 | 9.949608 | 42 | 0.050392 | 9.873223 | 18 | 0 | 19 |
| 7 30.1 | 10 | 9.822854 | 24 | 9.949650 | 42 | 0.050350 | 9.873204 | 19 | 50 | |
| 8 34.4 | 20 | 9.822878 | 24 | 9.949692 | 42 | 0.050308 | 9.873185 | 19 | 40 | |
| 9 38.7 | 30 | 9.822901 | 23 | 9.949735 | 43 | 0.050265 | 9.873166 | 19 | 30 | |
| | 40 | 9.822925 | 24 | 9.949777 | 42 | 0.050223 | 9.873148 | 18 | 20 | |
| | 50 | 9.822948 | 23 | 9.949819 | 42 | 0.050181 | 9.873129 | 19 | 10 | |
| | 42 | 0 | 24 | 9.949862 | 43 | 0.050138 | 9.873110 | 19 | 0 | 18 |
| 1 4.2 | 10 | 9.822996 | 24 | 9.949904 | 43 | 0.050096 | 9.873091 | 19 | 50 | |
| 2 8.4 | 20 | 9.823019 | 23 | 9.949947 | 43 | 0.050053 | 9.873073 | 18 | 40 | |
| 3 12.6 | 30 | 9.823043 | 24 | 9.949989 | 42 | 0.050011 | 9.873054 | 19 | 30 | |
| 4 16.8 | 40 | 9.823067 | 24 | 9.950031 | 43 | 0.049969 | 9.873035 | 19 | 20 | |
| 5 21.0 | 50 | 9.823090 | 23 | 9.950074 | 43 | 0.049926 | 9.873016 | 19 | 10 | |
| 6 25.2 | 43 | 0 | 24 | 9.950116 | 42 | 0.049884 | 9.872998 | 18 | 0 | 17 |
| 7 29.4 | 10 | 9.823137 | 23 | 9.950159 | 43 | 0.049841 | 9.872979 | 19 | 50 | |
| 8 33.6 | 20 | 9.823161 | 24 | 9.950201 | 42 | 0.049799 | 9.872960 | 19 | 40 | |
| 9 37.8 | 30 | 9.823185 | 24 | 9.950243 | 43 | 0.049757 | 9.872941 | 19 | 30 | |
| * | 40 | 9.823208 | 23 | 9.950286 | 42 | 0.049714 | 9.872923 | 18 | 20 | |
| | 50 | 9.823232 | 24 | 9.950328 | 42 | 0.049672 | 9.872904 | 19 | 10 | |
| | 44 | 0 | 23 | 9.950371 | 43 | 0.049629 | 9.872885 | 19 | 0 | 16 |
| | 10 | 9.823279 | 24 | 9.950413 | 42 | 0.049587 | 9.872866 | 19 | 50 | |
| 1 2.4 | 20 | 9.823303 | 24 | 9.950455 | 42 | 0.049545 | 9.872847 | 19 | 40 | |
| 2 4.8 | 30 | 9.823326 | 23 | 9.950498 | 43 | 0.049503 | 9.872829 | 18 | 30 | |
| 3 7.2 | 40 | 9.823350 | 24 | 9.950540 | 42 | 0.049460 | 9.872810 | 19 | 20 | |
| 4 9.6 | 50 | 9.823373 | 23 | 9.950582 | 42 | 0.049418 | 9.872791 | 19 | 10 | |
| 5 12.0 | 45 | 0 | 24 | 9.950625 | 43 | 0.049375 | 9.872772 | 19 | 0 | 15 |
| 6 14.4 | 10 | 9.823421 | 24 | 9.950667 | 42 | 0.049333 | 9.872753 | 19 | 50 | |
| 7 16.8 | 20 | 9.823444 | 23 | 9.950710 | 43 | 0.049290 | 9.872735 | 19 | 40 | |
| 8 19.2 | 30 | 9.823468 | 24 | 9.950752 | 42 | 0.049248 | 9.872716 | 19 | 30 | |
| 9 21.6 | 40 | 9.823491 | 23 | 9.950794 | 42 | 0.049206 | 9.872697 | 19 | 20 | |
| | 50 | 9.823515 | 24 | 9.950837 | 42 | 0.049164 | 9.872678 | 19 | 10 | |
| | 46 | 0 | 24 | 9.950879 | 42 | 0.049122 | 9.872659 | 18 | 0 | 14 |
| 1 2.3 | 10 | 9.823562 | 23 | 9.950921 | 43 | 0.049080 | 9.872640 | 19 | 50 | |
| 2 4.6 | 20 | 9.823586 | 24 | 9.950964 | 43 | 0.049036 | 9.872622 | 19 | 40 | |
| 3 6.9 | 30 | 9.823609 | 23 | 9.951006 | 42 | 0.048994 | 9.872603 | 19 | 30 | |
| 4 9.2 | 40 | 9.823633 | 24 | 9.951049 | 43 | 0.048951 | 9.872584 | 19 | 20 | |
| 5 11.5 | 50 | 9.823656 | 23 | 9.951091 | 42 | 0.048909 | 9.872565 | 19 | 10 | |
| 6 13.8 | 47 | 0 | 24 | 9.951133 | 42 | 0.048867 | 9.872546 | 18 | 0 | 13 |
| 7 16.1 | 10 | 9.823704 | 24 | 9.951176 | 43 | 0.048824 | 9.872528 | 19 | 50 | |
| 8 18.4 | 20 | 9.823727 | 23 | 9.951218 | 42 | 0.048782 | 9.872509 | 19 | 40 | |
| 9 20.7 | 30 | 9.823751 | 24 | 9.951261 | 43 | 0.048739 | 9.872490 | 19 | 30 | |
| | 40 | 9.823774 | 23 | 9.951303 | 42 | 0.048697 | 9.872471 | 19 | 20 | |
| | 50 | 9.823798 | 24 | 9.951345 | 42 | 0.048655 | 9.872452 | 19 | 10 | |
| * | 48 | 0 | 23 | 9.951388 | 43 | 0.048612 | 9.872433 | 18 | 0 | 12 |
| | 10 | 9.823845 | 24 | 9.951430 | 42 | 0.048570 | 9.872415 | 19 | 50 | |
| 1 1.8 | 20 | 9.823868 | 23 | 9.951472 | 42 | 0.048528 | 9.872396 | 19 | 40 | |
| 2 3.6 | 30 | 9.823892 | 24 | 9.951515 | 43 | 0.048485 | 9.872377 | 19 | 30 | |
| 3 5.4 | 40 | 9.823915 | 23 | 9.951557 | 42 | 0.048443 | 9.872358 | 19 | 20 | |
| 4 7.2 | 50 | 9.823939 | 24 | 9.951600 | 43 | 0.048400 | 9.872340 | 18 | 10 | |
| 5 9.0 | 49 | 0 | 24 | 9.951642 | 42 | 0.048358 | 9.872321 | 19 | 0 | 11 |
| 6 10.8 | 10 | 9.823986 | 23 | 9.951684 | 42 | 0.048316 | 9.872302 | 19 | 50 | |
| 7 12.6 | 20 | 9.824010 | 24 | 9.951727 | 43 | 0.048273 | 9.872283 | 19 | 40 | |
| 8 14.4 | 30 | 9.824033 | 23 | 9.951769 | 42 | 0.048231 | 9.872264 | 19 | 30 | |
| 9 16.2 | 40 | 9.824057 | 24 | 9.951811 | 42 | 0.048189 | 9.872245 | 19 | 20 | |
| | 50 | 9.824080 | 23 | 9.951854 | 43 | 0.048146 | 9.872226 | 19 | 10 | |
| | 50 | 9.824104 | 24 | 9.951896 | 42 | 0.048104 | 9.872208 | 18 | 0 | 10 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| | | Sin | d. | Tang | d. c | Cotg | Cos | d. | | |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 50 | o | 9.824104 | 23 | 9.951896 | 42 | 0.048104 | 9.872208 | 19 | o | 10 |
| | 10 | 9.824127 | 24 | 9.951938 | 43 | 0.048062 | 9.872189 | 19 | 50 | |
| | 20 | 9.824151 | 24 | 9.951981 | 43 | 0.048019 | 9.872170 | 19 | 40 | |
| | 30 | 9.824174 | 23 | 9.952023 | 43 | 0.047977 | 9.872151 | 19 | 30 | |
| | 40 | 9.824198 | 24 | 9.952066 | 43 | 0.047934 | 9.872132 | 19 | 20 | |
| | 50 | 9.824221 | 23 | 9.952108 | 42 | 0.047892 | 9.872113 | 19 | 10 | |
| 51 | o | 9.824245 | 24 | 9.952150 | 42 | 0.047850 | 9.872095 | 18 | o | |
| | 10 | 9.824268 | 23 | 9.952193 | 43 | 0.047807 | 9.872076 | 19 | o | |
| | 20 | 9.824292 | 24 | 9.952235 | 42 | 0.047765 | 9.872057 | 19 | 50 | |
| | 30 | 9.824315 | 23 | 9.952277 | 42 | 0.047723 | 9.872038 | 19 | 40 | |
| | 40 | 9.824339 | 24 | 9.952320 | 43 | 0.047680 | 9.872019 | 19 | 30 | |
| | 50 | 9.824362 | 23 | 9.952362 | 42 | 0.047638 | 9.871999 | 19 | 20 | |
| 52 | o | 9.824386 | 24 | 9.952405 | 43 | 0.047595 | 9.871981 | 19 | 10 | |
| | 10 | 9.824409 | 23 | 9.952447 | 42 | 0.047553 | 9.871962 | 19 | o | |
| | 20 | 9.824433 | 24 | 9.952489 | 42 | 0.047511 | 9.871944 | 18 | 50 | |
| | 30 | 9.824456 | 23 | 9.952532 | 43 | 0.047468 | 9.871925 | 19 | 40 | |
| | 40 | 9.824480 | 24 | 9.952574 | 42 | 0.047426 | 9.871906 | 19 | 30 | |
| | 50 | 9.824503 | 23 | 9.952616 | 42 | 0.047384 | 9.871887 | 19 | 20 | |
| 53 | o | 9.824527 | 24 | 9.952659 | 43 | 0.047341 | 9.871868 | 19 | 10 | |
| | 10 | 9.824550 | 23 | 9.952701 | 42 | 0.047299 | 9.871849 | 19 | o | |
| | 20 | 9.824574 | 24 | 9.952743 | 42 | 0.047257 | 9.871830 | 19 | 50 | |
| | 30 | 9.824597 | 23 | 9.952786 | 43 | 0.047214 | 9.871811 | 19 | 40 | |
| | 40 | 9.824621 | 24 | 9.952828 | 42 | 0.047172 | 9.871793 | 18 | 30 | |
| | 50 | 9.824644 | 23 | 9.952870 | 42 | 0.047130 | 9.871774 | 19 | 20 | |
| 54 | o | 9.824668 | 24 | 9.952913 | 43 | 0.047087 | 9.871755 | 19 | 10 | |
| | 10 | 9.824691 | 23 | 9.952955 | 42 | 0.047045 | 9.871736 | 19 | o | |
| | 20 | 9.824715 | 24 | 9.952998 | 43 | 0.047002 | 9.871717 | 19 | 50 | |
| | 30 | 9.824738 | 23 | 9.953040 | 42 | 0.046960 | 9.871698 | 19 | 40 | |
| | 40 | 9.824761 | 24 | 9.953082 | 42 | 0.046918 | 9.871679 | 19 | 30 | |
| | 50 | 9.824785 | 23 | 9.953125 | 43 | 0.046875 | 9.871660 | 19 | 20 | |
| 55 | o | 9.824808 | 24 | 9.953167 | 42 | 0.046833 | 9.871641 | 19 | 10 | |
| | 10 | 9.824832 | 23 | 9.953209 | 42 | 0.046791 | 9.871622 | 19 | o | |
| | 20 | 9.824855 | 24 | 9.953252 | 43 | 0.046748 | 9.871604 | 18 | 50 | |
| | 30 | 9.824879 | 23 | 9.953294 | 42 | 0.046706 | 9.871585 | 19 | 40 | |
| | 40 | 9.824902 | 24 | 9.953336 | 42 | 0.046664 | 9.871566 | 19 | 30 | |
| | 50 | 9.824926 | 23 | 9.953379 | 43 | 0.046621 | 9.871547 | 19 | 20 | |
| 56 | o | 9.824949 | 24 | 9.953421 | 42 | 0.046579 | 9.871528 | 19 | 10 | |
| | 10 | 9.824972 | 23 | 9.953463 | 42 | 0.046537 | 9.871509 | 19 | o | |
| | 20 | 9.824996 | 24 | 9.953506 | 43 | 0.046494 | 9.871490 | 19 | 50 | |
| | 30 | 9.825019 | 23 | 9.953548 | 42 | 0.046452 | 9.871471 | 19 | 40 | |
| | 40 | 9.825043 | 24 | 9.953591 | 43 | 0.046409 | 9.871452 | 19 | 30 | |
| | 50 | 9.825066 | 23 | 9.953633 | 42 | 0.046367 | 9.871433 | 19 | 20 | |
| 57 | o | 9.825090 | 24 | 9.953675 | 42 | 0.046325 | 9.871414 | 19 | 10 | |
| | 10 | 9.825113 | 23 | 9.953718 | 43 | 0.046282 | 9.871395 | 19 | o | |
| | 20 | 9.825136 | 24 | 9.953760 | 42 | 0.046240 | 9.871377 | 18 | 50 | |
| | 30 | 9.825160 | 23 | 9.953802 | 42 | 0.046198 | 9.871358 | 19 | 40 | |
| | 40 | 9.825183 | 24 | 9.953845 | 43 | 0.046155 | 9.871339 | 19 | 30 | |
| | 50 | 9.825207 | 23 | 9.953887 | 42 | 0.046113 | 9.871320 | 19 | 20 | |
| 58 | o | 9.825230 | 24 | 9.953929 | 42 | 0.046071 | 9.871301 | 19 | 10 | |
| | 10 | 9.825254 | 23 | 9.953972 | 43 | 0.046028 | 9.871282 | 19 | o | |
| | 20 | 9.825277 | 24 | 9.954014 | 42 | 0.045986 | 9.871263 | 19 | 50 | |
| | 30 | 9.825300 | 23 | 9.954056 | 42 | 0.045944 | 9.871244 | 19 | 40 | |
| | 40 | 9.825324 | 24 | 9.954099 | 43 | 0.045901 | 9.871225 | 19 | 30 | |
| | 50 | 9.825347 | 23 | 9.954141 | 42 | 0.045859 | 9.871206 | 19 | 20 | |
| 59 | o | 9.825371 | 24 | 9.954183 | 42 | 0.045817 | 9.871187 | 19 | 10 | |
| | 10 | 9.825394 | 23 | 9.954226 | 43 | 0.045774 | 9.871168 | 19 | o | |
| | 20 | 9.825417 | 24 | 9.954268 | 42 | 0.045732 | 9.871149 | 19 | 50 | |
| | 30 | 9.825441 | 23 | 9.954310 | 42 | 0.045690 | 9.871130 | 19 | 40 | |
| | 40 | 9.825464 | 24 | 9.954353 | 43 | 0.045647 | 9.871111 | 19 | 30 | |
| | 50 | 9.825488 | 23 | 9.954395 | 42 | 0.045605 | 9.871092 | 19 | 20 | |
| 60 | o | 9.825511 | 24 | 9.954437 | 42 | 0.045563 | 9.871073 | 19 | 10 | |
| | | | | | | | | | o | 0 |
| | | Cos | d. | Cotg | d. c | Tang | Sin | d. | | |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 0 | 0 | 9.825511 | 23 | 9.954437 | 43 | 0.045563 | 9.871073 | 19 | 0 | 60 |
| 1 | 10 | 9.825534 | 24 | 9.954480 | 42 | 0.045520 | 9.871054 | 18 | 50 | |
| 2 | 20 | 9.825558 | 23 | 9.954522 | 42 | 0.045478 | 9.871036 | 19 | 40 | |
| 3 | 30 | 9.825581 | 23 | 9.954564 | 42 | 0.045436 | 9.871017 | 19 | 30 | |
| 4 | 40 | 9.825604 | 24 | 9.954607 | 42 | 0.045393 | 9.870998 | 19 | 20 | |
| 5 | 50 | 9.825628 | 23 | 9.954649 | 42 | 0.045351 | 9.870979 | 19 | 10 | |
| 6 | 0 | 9.825651 | 24 | 9.954691 | 43 | 0.045309 | 9.870960 | 19 | 0 | 59 |
| 7 | 10 | 9.825675 | 23 | 9.954734 | 42 | 0.045266 | 9.870941 | 19 | 50 | |
| 8 | 20 | 9.825698 | 23 | 9.954776 | 42 | 0.045224 | 9.870922 | 19 | 40 | |
| 9 | 30 | 9.825721 | 23 | 9.954819 | 43 | 0.045181 | 9.870903 | 19 | 30 | |
| 10 | 40 | 9.825745 | 24 | 9.954861 | 42 | 0.045139 | 9.870884 | 19 | 20 | |
| 11 | 50 | 9.825768 | 23 | 9.954903 | 42 | 0.045097 | 9.870865 | 19 | 10 | |
| 12 | 0 | 9.825791 | 24 | 9.954946 | 43 | 0.045055 | 9.870846 | 19 | 0 | 58 |
| 13 | 10 | 9.825815 | 23 | 9.954988 | 42 | 0.045012 | 9.870827 | 19 | 50 | |
| 14 | 20 | 9.825838 | 23 | 9.955030 | 42 | 0.044970 | 9.870808 | 19 | 40 | |
| 15 | 30 | 9.825861 | 23 | 9.955073 | 43 | 0.044927 | 9.870789 | 19 | 30 | |
| 16 | 40 | 9.825885 | 24 | 9.955115 | 42 | 0.044885 | 9.870770 | 19 | 20 | |
| 17 | 50 | 9.825908 | 23 | 9.955157 | 42 | 0.044843 | 9.870751 | 19 | 10 | |
| 18 | 0 | 9.825931 | 24 | 9.955200 | 43 | 0.044801 | 9.870732 | 19 | 0 | 57 |
| 19 | 10 | 9.825955 | 23 | 9.955242 | 42 | 0.044759 | 9.870713 | 19 | 50 | |
| 20 | 20 | 9.825978 | 23 | 9.955284 | 42 | 0.044716 | 9.870694 | 19 | 40 | |
| 21 | 30 | 9.826001 | 23 | 9.955327 | 43 | 0.044673 | 9.870675 | 19 | 30 | |
| 22 | 40 | 9.826025 | 24 | 9.955369 | 42 | 0.044631 | 9.870656 | 19 | 20 | |
| 23 | 50 | 9.826048 | 23 | 9.955411 | 42 | 0.044589 | 9.870637 | 19 | 10 | |
| 24 | 0 | 9.826071 | 24 | 9.955454 | 43 | 0.044546 | 9.870618 | 19 | 0 | 56 |
| 25 | 10 | 9.826095 | 23 | 9.955496 | 42 | 0.044504 | 9.870599 | 19 | 50 | |
| 26 | 20 | 9.826118 | 23 | 9.955538 | 42 | 0.044462 | 9.870580 | 19 | 40 | |
| 27 | 30 | 9.826141 | 23 | 9.955581 | 43 | 0.044419 | 9.870561 | 19 | 30 | |
| 28 | 40 | 9.826165 | 24 | 9.955623 | 42 | 0.044377 | 9.870542 | 19 | 20 | |
| 29 | 50 | 9.826188 | 23 | 9.955665 | 42 | 0.044335 | 9.870523 | 19 | 10 | |
| 30 | 0 | 9.826211 | 24 | 9.955708 | 43 | 0.044292 | 9.870504 | 19 | 0 | 55 |
| 31 | 10 | 9.826235 | 23 | 9.955750 | 42 | 0.044250 | 9.870485 | 19 | 50 | |
| 32 | 20 | 9.826258 | 23 | 9.955792 | 42 | 0.044208 | 9.870466 | 19 | 40 | |
| 33 | 30 | 9.826281 | 23 | 9.955835 | 43 | 0.044165 | 9.870447 | 19 | 30 | |
| 34 | 40 | 9.826305 | 24 | 9.955877 | 42 | 0.044123 | 9.870428 | 19 | 20 | |
| 35 | 50 | 9.826328 | 23 | 9.955919 | 42 | 0.044081 | 9.870409 | 19 | 10 | |
| 36 | 0 | 9.826351 | 24 | 9.955961 | 43 | 0.044039 | 9.870390 | 19 | 0 | 54 |
| 37 | 10 | 9.826375 | 23 | 9.956004 | 42 | 0.043996 | 9.870371 | 19 | 50 | |
| 38 | 20 | 9.826398 | 23 | 9.956046 | 42 | 0.043954 | 9.870352 | 19 | 40 | |
| 39 | 30 | 9.826421 | 23 | 9.956088 | 42 | 0.043912 | 9.870333 | 19 | 30 | |
| 40 | 40 | 9.826444 | 23 | 9.956131 | 43 | 0.043869 | 9.870314 | 19 | 20 | |
| 41 | 50 | 9.826468 | 24 | 9.956173 | 42 | 0.043827 | 9.870295 | 19 | 10 | |
| 42 | 0 | 9.826491 | 23 | 9.956215 | 42 | 0.043785 | 9.870276 | 19 | 0 | 53 |
| 43 | 10 | 9.826514 | 23 | 9.956258 | 43 | 0.043742 | 9.870257 | 19 | 50 | |
| 44 | 20 | 9.826538 | 24 | 9.956300 | 42 | 0.043700 | 9.870238 | 19 | 40 | |
| 45 | 30 | 9.826561 | 23 | 9.956342 | 42 | 0.043658 | 9.870218 | 19 | 30 | |
| 46 | 40 | 9.826584 | 23 | 9.956385 | 43 | 0.043615 | 9.870199 | 19 | 20 | |
| 47 | 50 | 9.826607 | 23 | 9.956427 | 42 | 0.043573 | 9.870180 | 19 | 10 | |
| 48 | 0 | 9.826631 | 24 | 9.956469 | 42 | 0.043531 | 9.870161 | 19 | 0 | 52 |
| 49 | 10 | 9.826654 | 23 | 9.956512 | 43 | 0.043488 | 9.870142 | 19 | 50 | |
| 50 | 20 | 9.826677 | 23 | 9.956554 | 42 | 0.043446 | 9.870123 | 19 | 40 | |
| 51 | 30 | 9.826701 | 24 | 9.956596 | 42 | 0.043404 | 9.870104 | 19 | 30 | |
| 52 | 40 | 9.826724 | 23 | 9.956639 | 43 | 0.043361 | 9.870085 | 19 | 20 | |
| 53 | 50 | 9.826747 | 23 | 9.956681 | 42 | 0.043319 | 9.870066 | 19 | 10 | |
| 54 | 0 | 9.826770 | 24 | 9.956723 | 42 | 0.043277 | 9.870047 | 19 | 0 | 51 |
| 55 | 10 | 9.826794 | 23 | 9.956766 | 43 | 0.043235 | 9.870028 | 19 | 50 | |
| 56 | 20 | 9.826817 | 23 | 9.956808 | 42 | 0.043192 | 9.870009 | 19 | 40 | |
| 57 | 30 | 9.826840 | 23 | 9.956850 | 42 | 0.043150 | 9.869990 | 19 | 30 | |
| 58 | 40 | 9.826863 | 23 | 9.956893 | 43 | 0.043107 | 9.869971 | 19 | 20 | |
| 59 | 50 | 9.826887 | 24 | 9.956935 | 42 | 0.043065 | 9.869952 | 19 | 10 | |
| 60 | 0 | 9.826910 | 23 | 9.956977 | 42 | 0.043023 | 9.869933 | 19 | 0 | 50 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 10 | 0 | 9.826910 | 23 | 9.956977 | 43 | 0.043023 | 9.869933 | 19 | 0 | 50 |
| | 10 | 9.826933 | 23 | 9.957020 | 42 | 0.042980 | 9.869914 | 19 | 50 | |
| | 20 | 9.826956 | 24 | 9.957062 | 42 | 0.042938 | 9.869894 | 19 | 40 | |
| | 30 | 9.826980 | 24 | 9.957104 | 42 | 0.042896 | 9.869875 | 19 | 30 | |
| | 40 | 9.827003 | 23 | 9.957146 | 42 | 0.042854 | 9.869856 | 19 | 20 | |
| | 50 | 9.827026 | 23 | 9.957189 | 43 | 0.042811 | 9.869837 | 19 | 10 | |
| 11 | 0 | 9.827049 | 23 | 9.957231 | 42 | 0.042769 | 9.869818 | 19 | 0 | 49 |
| | 10 | 9.827073 | 24 | 9.957273 | 42 | 0.042727 | 9.869799 | 19 | 50 | |
| | 20 | 9.827096 | 23 | 9.957316 | 43 | 0.042684 | 9.869780 | 19 | 40 | |
| | 30 | 9.827119 | 23 | 9.957358 | 42 | 0.042642 | 9.869761 | 19 | 30 | |
| | 40 | 9.827142 | 23 | 9.957400 | 42 | 0.042600 | 9.869742 | 19 | 20 | |
| | 50 | 9.827165 | 23 | 9.957443 | 43 | 0.042557 | 9.869723 | 19 | 10 | |
| 12 | 0 | 9.827189 | 24 | 9.957485 | 42 | 0.042515 | 9.869704 | 19 | 0 | 48 |
| | 10 | 9.827212 | 23 | 9.957527 | 42 | 0.042473 | 9.869685 | 19 | 50 | |
| | 20 | 9.827235 | 23 | 9.957570 | 43 | 0.042430 | 9.869666 | 19 | 40 | |
| | 30 | 9.827258 | 23 | 9.957612 | 42 | 0.042388 | 9.869646 | 19 | 30 | |
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| | 50 | 9.827305 | 23 | 9.957697 | 43 | 0.042303 | 9.869608 | 19 | 10 | |
| 13 | 0 | 9.827328 | 23 | 9.957739 | 42 | 0.042261 | 9.869589 | 19 | 0 | 47 |
| | 10 | 9.827351 | 23 | 9.957781 | 42 | 0.042219 | 9.869570 | 19 | 50 | |
| | 20 | 9.827374 | 23 | 9.957823 | 43 | 0.042177 | 9.869551 | 19 | 40 | |
| | 30 | 9.827398 | 24 | 9.957866 | 43 | 0.042134 | 9.869532 | 19 | 30 | |
| | 40 | 9.827421 | 23 | 9.957908 | 42 | 0.042092 | 9.869513 | 19 | 20 | |
| | 50 | 9.827444 | 23 | 9.957950 | 42 | 0.042050 | 9.869494 | 19 | 10 | |
| 14 | 0 | 9.827467 | 23 | 9.957993 | 43 | 0.042007 | 9.869474 | 20 | 0 | 46 |
| | 10 | 9.827490 | 24 | 9.958035 | 42 | 0.041965 | 9.869455 | 19 | 50 | |
| | 20 | 9.827514 | 23 | 9.958077 | 42 | 0.041923 | 9.869436 | 19 | 40 | |
| | 30 | 9.827537 | 23 | 9.958120 | 43 | 0.041880 | 9.869417 | 19 | 30 | |
| | 40 | 9.827560 | 23 | 9.958162 | 42 | 0.041838 | 9.869398 | 19 | 20 | |
| | 50 | 9.827583 | 23 | 9.958204 | 42 | 0.041796 | 9.869379 | 19 | 10 | |
| 15 | 0 | 9.827606 | 23 | 9.958247 | 43 | 0.041753 | 9.869360 | 19 | 0 | 45 |
| | 10 | 9.827629 | 23 | 9.958289 | 42 | 0.041711 | 9.869341 | 19 | 50 | |
| | 20 | 9.827653 | 24 | 9.958331 | 42 | 0.041669 | 9.869321 | 20 | 40 | |
| | 30 | 9.827676 | 23 | 9.958373 | 42 | 0.041627 | 9.869302 | 19 | 30 | |
| | 40 | 9.827699 | 23 | 9.958416 | 43 | 0.041584 | 9.869283 | 19 | 20 | |
| | 50 | 9.827722 | 23 | 9.958458 | 42 | 0.041542 | 9.869264 | 19 | 10 | |
| 16 | 0 | 9.827745 | 23 | 9.958500 | 42 | 0.041500 | 9.869245 | 19 | 0 | 44 |
| | 10 | 9.827768 | 23 | 9.958543 | 43 | 0.041457 | 9.869226 | 19 | 50 | |
| | 20 | 9.827792 | 24 | 9.958585 | 42 | 0.041415 | 9.869207 | 19 | 40 | |
| | 30 | 9.827815 | 23 | 9.958627 | 42 | 0.041373 | 9.869188 | 19 | 30 | |
| | 40 | 9.827838 | 23 | 9.958670 | 43 | 0.041330 | 9.869168 | 20 | 20 | |
| | 50 | 9.827861 | 23 | 9.958712 | 42 | 0.041288 | 9.869149 | 19 | 10 | |
| 17 | 0 | 9.827884 | 23 | 9.958754 | 42 | 0.041246 | 9.869130 | 19 | 0 | 43 |
| | 10 | 9.827907 | 23 | 9.958796 | 42 | 0.041204 | 9.869111 | 19 | 50 | |
| | 20 | 9.827931 | 24 | 9.958839 | 43 | 0.041161 | 9.869092 | 19 | 40 | |
| | 30 | 9.827954 | 23 | 9.958881 | 42 | 0.041119 | 9.869073 | 19 | 30 | |
| | 40 | 9.827977 | 23 | 9.958923 | 42 | 0.041077 | 9.869053 | 20 | 20 | |
| | 50 | 9.828000 | 23 | 9.958966 | 43 | 0.041034 | 9.869034 | 19 | 10 | |
| 18 | 0 | 9.828023 | 23 | 9.959008 | 42 | 0.040992 | 9.869015 | 19 | 0 | 42 |
| | 10 | 9.828046 | 23 | 9.959050 | 42 | 0.040950 | 9.868996 | 19 | 50 | |
| | 20 | 9.828069 | 23 | 9.959093 | 43 | 0.040907 | 9.868977 | 19 | 40 | |
| | 30 | 9.828093 | 24 | 9.959135 | 42 | 0.040865 | 9.868958 | 19 | 30 | |
| | 40 | 9.828116 | 23 | 9.959177 | 42 | 0.040823 | 9.868939 | 19 | 20 | |
| | 50 | 9.828139 | 23 | 9.959219 | 43 | 0.040781 | 9.868919 | 20 | 10 | |
| 19 | 0 | 9.828162 | 23 | 9.959262 | 42 | 0.040739 | 9.868900 | 19 | 0 | 41 |
| | 10 | 9.828185 | 23 | 9.959304 | 42 | 0.040697 | 9.868881 | 19 | 50 | |
| | 20 | 9.828208 | 23 | 9.959346 | 42 | 0.040654 | 9.868862 | 19 | 40 | |
| | 30 | 9.828231 | 23 | 9.959389 | 43 | 0.040611 | 9.868843 | 19 | 30 | |
| | 40 | 9.828254 | 23 | 9.959431 | 42 | 0.040569 | 9.868823 | 20 | 20 | |
| | 50 | 9.828278 | 24 | 9.959473 | 42 | 0.040527 | 9.868804 | 19 | 10 | |
| 20 | 0 | 9.828301 | 23 | 9.959516 | 43 | 0.040484 | 9.868785 | 19 | 0 | 40 |

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9 20.7

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 43 | 20 | 0.828301 | 23 | 9.959516 | 42 | 0.040484 | 9.868785 | 19 | 0 | 40 |
| 1 4.3 | 10 | 9.828324 | 23 | 9.959558 | 42 | 0.040442 | 9.868766 | 19 | 50 | |
| 2 8.6 | 20 | 9.828347 | 23 | 9.959600 | 42 | 0.040400 | 9.868747 | 19 | 40 | |
| 3 12.9 | 30 | 9.828370 | 23 | 9.959642 | 42 | 0.040358 | 9.868728 | 19 | 30 | |
| 4 17.2 | 40 | 9.828393 | 23 | 9.959685 | 42 | 0.040315 | 9.868708 | 19 | 20 | |
| 5 21.5 | 50 | 9.828416 | 23 | 9.959727 | 42 | 0.040273 | 9.868689 | 19 | 10 | |
| 6 25.8 | 21 | 0.828439 | 23 | 9.959769 | 42 | 0.040231 | 9.868670 | 19 | 0 | 39 |
| 7 30.1 | 10 | 9.828462 | 23 | 9.959812 | 42 | 0.040188 | 9.868651 | 19 | 50 | |
| 8 34.4 | 20 | 9.828485 | 23 | 9.959854 | 42 | 0.040146 | 9.868632 | 19 | 40 | |
| 9 38.7 | 30 | 9.828509 | 24 | 9.959896 | 42 | 0.040104 | 9.868612 | 19 | 30 | |
| | 40 | 9.828532 | 23 | 9.959938 | 42 | 0.040062 | 9.868593 | 19 | 20 | |
| | 50 | 9.828555 | 23 | 9.959981 | 42 | 0.040019 | 9.868574 | 19 | 10 | |
| 42 | 22 | 0.828578 | 23 | 9.960023 | 42 | 0.039977 | 9.868555 | 19 | 0 | 38 |
| 1 4.2 | 10 | 9.828601 | 23 | 9.960065 | 42 | 0.039935 | 9.868536 | 19 | 50 | |
| 2 8.4 | 20 | 9.828624 | 23 | 9.960108 | 43 | 0.039892 | 9.868516 | 19 | 40 | |
| 3 12.6 | 30 | 9.828647 | 23 | 9.960150 | 42 | 0.039850 | 9.868497 | 19 | 30 | |
| 4 16.8 | 40 | 9.828670 | 23 | 9.960192 | 42 | 0.039808 | 9.868478 | 19 | 20 | |
| 5 21.0 | 50 | 9.828693 | 23 | 9.960234 | 42 | 0.039766 | 9.868459 | 19 | 10 | |
| 6 25.2 | 23 | 0.828716 | 23 | 9.960277 | 42 | 0.039723 | 9.868440 | 19 | 0 | 37 |
| 7 29.4 | 10 | 9.828739 | 23 | 9.960319 | 42 | 0.039681 | 9.868420 | 19 | 50 | |
| 8 33.6 | 20 | 9.828762 | 23 | 9.960361 | 42 | 0.039639 | 9.868401 | 19 | 40 | |
| 9 37.8 | 30 | 9.828786 | 24 | 9.960404 | 43 | 0.039596 | 9.868382 | 19 | 30 | |
| | 40 | 9.828809 | 23 | 9.960446 | 42 | 0.039554 | 9.868363 | 19 | 20 | |
| | 50 | 9.828832 | 23 | 9.960488 | 42 | 0.039512 | 9.868343 | 19 | 10 | |
| * | 24 | 0.828855 | 23 | 9.960530 | 42 | 0.039470 | 9.868324 | 19 | 0 | 36 |
| 24 | 10 | 9.828878 | 23 | 9.960573 | 43 | 0.039427 | 9.868305 | 19 | 50 | |
| 1 2.4 | 20 | 9.828901 | 23 | 9.960615 | 42 | 0.039385 | 9.868286 | 19 | 40 | |
| 2 4.8 | 30 | 9.828924 | 23 | 9.960657 | 42 | 0.039343 | 9.868267 | 19 | 30 | |
| 3 7.2 | 40 | 9.828947 | 23 | 9.960700 | 43 | 0.039300 | 9.868247 | 19 | 20 | |
| 4 9.6 | 50 | 9.828970 | 23 | 9.960742 | 42 | 0.039258 | 9.868228 | 19 | 10 | |
| 5 12.0 | 25 | 0.828993 | 23 | 9.960784 | 42 | 0.039216 | 9.868209 | 19 | 0 | 35 |
| 6 14.4 | 10 | 9.829016 | 23 | 9.960826 | 42 | 0.039174 | 9.868190 | 19 | 50 | |
| 7 16.8 | 20 | 9.829039 | 23 | 9.960869 | 43 | 0.039131 | 9.868170 | 19 | 40 | |
| 8 19.2 | 30 | 9.829062 | 23 | 9.960911 | 42 | 0.039089 | 9.868151 | 19 | 30 | |
| 9 21.6 | 40 | 9.829085 | 23 | 9.960953 | 42 | 0.039047 | 9.868132 | 19 | 20 | |
| | 50 | 9.829108 | 23 | 9.960996 | 42 | 0.039004 | 9.868113 | 19 | 10 | |
| 23 | 26 | 0.829131 | 23 | 9.961038 | 42 | 0.038962 | 9.868095 | 19 | 0 | 34 |
| 1 2.3 | 10 | 9.829154 | 23 | 9.961080 | 42 | 0.038920 | 9.868076 | 19 | 50 | |
| 2 4.6 | 20 | 9.829177 | 23 | 9.961122 | 42 | 0.038878 | 9.868057 | 19 | 40 | |
| 3 6.9 | 30 | 9.829200 | 23 | 9.961165 | 43 | 0.038835 | 9.868036 | 19 | 30 | |
| 4 9.2 | 40 | 9.829223 | 23 | 9.961207 | 42 | 0.038793 | 9.868016 | 19 | 20 | |
| 5 11.5 | 50 | 9.829246 | 23 | 9.961249 | 42 | 0.038751 | 9.867997 | 19 | 10 | |
| 6 13.8 | 27 | 0.829269 | 23 | 9.961292 | 43 | 0.038708 | 9.867978 | 19 | 0 | 33 |
| 7 16.1 | 10 | 9.829292 | 23 | 9.961334 | 42 | 0.038666 | 9.867959 | 19 | 50 | |
| 8 18.4 | 20 | 9.829315 | 23 | 9.961376 | 42 | 0.038624 | 9.867939 | 19 | 40 | |
| 9 20.7 | 30 | 9.829338 | 23 | 9.961418 | 42 | 0.038582 | 9.867920 | 19 | 30 | |
| | 40 | 9.829361 | 23 | 9.961461 | 43 | 0.038539 | 9.867900 | 19 | 20 | |
| | 50 | 9.829384 | 23 | 9.961503 | 42 | 0.038497 | 9.867882 | 19 | 10 | |
| * | 28 | 0.829407 | 23 | 9.961545 | 42 | 0.038455 | 9.867862 | 19 | 0 | 32 |
| 19 | 10 | 9.829430 | 23 | 9.961587 | 42 | 0.038413 | 9.867843 | 19 | 50 | |
| 1 1.9 | 20 | 9.829453 | 23 | 9.961630 | 43 | 0.038370 | 9.867824 | 19 | 40 | |
| 2 3.8 | 30 | 9.829476 | 23 | 9.961672 | 42 | 0.038328 | 9.867804 | 19 | 30 | |
| 3 5.7 | 40 | 9.829499 | 23 | 9.961714 | 42 | 0.038286 | 9.867785 | 19 | 20 | |
| 4 7.6 | 50 | 9.829522 | 23 | 9.961757 | 43 | 0.038243 | 9.867766 | 19 | 10 | |
| 5 9.5 | 29 | 0.829545 | 23 | 9.961799 | 42 | 0.038201 | 9.867747 | 19 | 0 | 31 |
| 6 11.4 | 10 | 9.829568 | 23 | 9.961841 | 42 | 0.038159 | 9.867727 | 19 | 50 | |
| 7 13.3 | 20 | 9.829591 | 23 | 9.961883 | 42 | 0.038117 | 9.867708 | 19 | 40 | |
| 8 15.2 | 30 | 9.829614 | 23 | 9.961926 | 43 | 0.038074 | 9.867689 | 19 | 30 | |
| 9 17.1 | 40 | 9.829637 | 23 | 9.961968 | 42 | 0.038032 | 9.867669 | 19 | 20 | |
| | 50 | 9.829660 | 23 | 9.962010 | 42 | 0.037990 | 9.867650 | 19 | 10 | |
| | 30 | 0.829683 | 23 | 9.962052 | 42 | 0.037948 | 9.867631 | 19 | 0 | 30 |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 30 | 0 | 9.829683 | 23 | 9.962052 | 43 | 0.037948 | 9.867631 | 19 | 0 | 30 |
| | 10 | 9.829706 | 23 | 9.962095 | 42 | 0.037905 | 9.867612 | 20 | 50 | 43 |
| | 20 | 9.829729 | 23 | 9.962137 | 42 | 0.037863 | 9.867592 | 20 | 40 | 1 4.3 |
| | 30 | 9.829752 | 23 | 9.962179 | 42 | 0.037821 | 9.867573 | 19 | 30 | 2 8.6 |
| | 40 | 9.829775 | 23 | 9.962222 | 43 | 0.037778 | 9.867554 | 19 | 20 | 3 12.9 |
| | 50 | 9.829798 | 23 | 9.962264 | 42 | 0.037736 | 9.867534 | 20 | 10 | 4 17.2 |
| 31 | 0 | 9.829821 | 23 | 9.962306 | 42 | 0.037694 | 9.867515 | 19 | 0 | 5 21.5 |
| | 10 | 9.829844 | 23 | 9.962348 | 42 | 0.037652 | 9.867496 | 19 | 50 | 6 25.8 |
| | 20 | 9.829867 | 23 | 9.962391 | 43 | 0.037609 | 9.867476 | 20 | 40 | 7 30.1 |
| | 30 | 9.829890 | 23 | 9.962433 | 42 | 0.037567 | 9.867457 | 19 | 30 | 8 34.4 |
| | 40 | 9.829913 | 23 | 9.962475 | 42 | 0.037525 | 9.867438 | 19 | 20 | 9 38.7 |
| | 50 | 9.829936 | 23 | 9.962517 | 42 | 0.037483 | 9.867419 | 20 | 10 | |
| 32 | 0 | 9.829959 | 23 | 9.962560 | 43 | 0.037441 | 9.867400 | 19 | 0 | 28 |
| | 10 | 9.829982 | 23 | 9.962602 | 42 | 0.037400 | 9.867381 | 19 | 50 | 42 |
| | 20 | 9.830005 | 23 | 9.962644 | 42 | 0.037356 | 9.867361 | 19 | 40 | 1 4.2 |
| | 30 | 9.830028 | 23 | 9.962686 | 42 | 0.037314 | 9.867341 | 20 | 30 | 2 8.4 |
| | 40 | 9.830051 | 23 | 9.962729 | 43 | 0.037271 | 9.867322 | 19 | 20 | 3 12.6 |
| | 50 | 9.830074 | 23 | 9.962771 | 42 | 0.037229 | 9.867303 | 19 | 10 | 4 16.8 |
| 33 | 0 | 9.830097 | 23 | 9.962813 | 42 | 0.037187 | 9.867283 | 20 | 0 | 5 21.0 |
| | 10 | 9.830120 | 22 | 9.962856 | 43 | 0.037145 | 9.867264 | 19 | 50 | 6 25.2 |
| | 20 | 9.830142 | 22 | 9.962898 | 42 | 0.037102 | 9.867245 | 19 | 40 | 7 29.4 |
| | 30 | 9.830165 | 23 | 9.962940 | 42 | 0.037060 | 9.867225 | 20 | 30 | 8 33.6 |
| | 40 | 9.830188 | 23 | 9.962982 | 42 | 0.037018 | 9.867206 | 19 | 20 | 9 37.8 |
| | 50 | 9.830211 | 23 | 9.963025 | 43 | 0.036975 | 9.867187 | 19 | 10 | |
| 34 | 0 | 9.830234 | 23 | 9.963067 | 42 | 0.036933 | 9.867167 | 20 | 0 | 26 |
| | 10 | 9.830257 | 23 | 9.963109 | 42 | 0.036891 | 9.867148 | 19 | 50 | * |
| | 20 | 9.830280 | 23 | 9.963151 | 42 | 0.036849 | 9.867129 | 19 | 40 | 23 |
| | 30 | 9.830303 | 23 | 9.963194 | 43 | 0.036806 | 9.867109 | 20 | 30 | 1 2.3 |
| | 40 | 9.830326 | 23 | 9.963236 | 42 | 0.036764 | 9.867090 | 19 | 20 | 2 4.6 |
| | 50 | 9.830349 | 23 | 9.963278 | 42 | 0.036722 | 9.867071 | 19 | 10 | 3 6.9 |
| 35 | 0 | 9.830372 | 23 | 9.963320 | 42 | 0.036680 | 9.867051 | 20 | 0 | 4 9.2 |
| | 10 | 9.830395 | 23 | 9.963363 | 43 | 0.036637 | 9.867032 | 19 | 50 | 5 11.5 |
| | 20 | 9.830417 | 22 | 9.963405 | 42 | 0.036595 | 9.867013 | 19 | 40 | 6 13.8 |
| | 30 | 9.830440 | 23 | 9.963447 | 42 | 0.036553 | 9.866993 | 20 | 30 | 7 16.1 |
| | 40 | 9.830463 | 23 | 9.963489 | 42 | 0.036511 | 9.866974 | 19 | 20 | 8 18.4 |
| | 50 | 9.830486 | 23 | 9.963532 | 43 | 0.036468 | 9.866954 | 20 | 10 | 9 20.7 |
| 36 | 0 | 9.830509 | 23 | 9.963574 | 42 | 0.036426 | 9.866935 | 19 | 0 | 24 |
| | 10 | 9.830532 | 23 | 9.963616 | 42 | 0.036384 | 9.866916 | 19 | 50 | 22 |
| | 20 | 9.830555 | 23 | 9.963659 | 43 | 0.036341 | 9.866896 | 20 | 40 | 1 2.2 |
| | 30 | 9.830578 | 23 | 9.963701 | 42 | 0.036299 | 9.866877 | 19 | 30 | 2 4.4 |
| | 40 | 9.830601 | 23 | 9.963743 | 42 | 0.036257 | 9.866858 | 19 | 20 | 3 6.6 |
| | 50 | 9.830624 | 23 | 9.963785 | 42 | 0.036215 | 9.866838 | 20 | 10 | 4 8.8 |
| 37 | 0 | 9.830646 | 22 | 9.963828 | 43 | 0.036172 | 9.866819 | 19 | 0 | 5 11.0 |
| | 10 | 9.830669 | 23 | 9.963870 | 42 | 0.036130 | 9.866800 | 19 | 50 | 6 13.2 |
| | 20 | 9.830692 | 23 | 9.963912 | 42 | 0.036088 | 9.866780 | 20 | 40 | 7 15.4 |
| | 30 | 9.830715 | 23 | 9.963954 | 42 | 0.036046 | 9.866761 | 19 | 30 | 8 17.6 |
| | 40 | 9.830738 | 23 | 9.963997 | 43 | 0.036003 | 9.866741 | 19 | 20 | 9 19.8 |
| | 50 | 9.830761 | 23 | 9.964039 | 42 | 0.035961 | 9.866722 | 19 | 10 | |
| 38 | 0 | 9.830784 | 23 | 9.964081 | 42 | 0.035919 | 9.866703 | 19 | 0 | 22 |
| | 10 | 9.830807 | 23 | 9.964123 | 42 | 0.035877 | 9.866683 | 20 | 50 | * |
| | 20 | 9.830829 | 22 | 9.964166 | 43 | 0.035834 | 9.866664 | 19 | 40 | 20 |
| | 30 | 9.830852 | 23 | 9.964208 | 42 | 0.035792 | 9.866644 | 20 | 30 | 1 2.0 |
| | 40 | 9.830875 | 23 | 9.964250 | 42 | 0.035750 | 9.866625 | 19 | 20 | 2 4.0 |
| | 50 | 9.830898 | 23 | 9.964292 | 42 | 0.035708 | 9.866606 | 19 | 10 | 3 6.0 |
| 39 | 0 | 9.830921 | 23 | 9.964335 | 43 | 0.035665 | 9.866586 | 20 | 0 | 4 8.0 |
| | 10 | 9.830944 | 23 | 9.964377 | 42 | 0.035623 | 9.866567 | 19 | 50 | 5 10.0 |
| | 20 | 9.830967 | 23 | 9.964419 | 42 | 0.035581 | 9.866547 | 20 | 40 | 6 12.0 |
| | 30 | 9.830989 | 22 | 9.964461 | 42 | 0.035539 | 9.866528 | 19 | 30 | 7 14.0 |
| | 40 | 9.831012 | 23 | 9.964504 | 43 | 0.035496 | 9.866509 | 19 | 20 | 8 16.0 |
| | 50 | 9.831035 | 23 | 9.964546 | 42 | 0.035454 | 9.866489 | 20 | 10 | 9 18.0 |
| 40 | 0 | 9.831058 | 23 | 9.964588 | 42 | 0.035412 | 9.866470 | 19 | 0 | 20 |

| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |
|---|---|-----|----|------|------|------|-----|----|---|---|
|---|---|-----|----|------|------|------|-----|----|---|---|

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| ' | " | Sin | d | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 40 | 0 | 9.831058 | 23 | 9.964588 | 42 | 0.035412 | 9.866470 | 20 | 0 | 20 |
| | 10 | 9.831108 | 23 | 9.964630 | 42 | 0.035370 | 9.866450 | 19 | 50 | |
| | 20 | 9.831104 | 23 | 9.964673 | 43 | 0.035327 | 9.866431 | 19 | 40 | |
| | 30 | 9.831127 | 23 | 9.964715 | 42 | 0.035285 | 9.866412 | 19 | 30 | |
| | 40 | 9.831149 | 22 | 9.964757 | 42 | 0.035243 | 9.866392 | 19 | 20 | |
| | 50 | 9.831172 | 23 | 9.964799 | 42 | 0.035201 | 9.866373 | 19 | 10 | |
| 41 | 0 | 9.831195 | 23 | 9.964842 | 43 | 0.035158 | 9.866353 | 20 | 0 | 19 |
| | 10 | 9.831218 | 23 | 9.964884 | 42 | 0.035116 | 9.866334 | 19 | 50 | |
| | 20 | 9.831241 | 22 | 9.964926 | 42 | 0.035074 | 9.866315 | 20 | 40 | |
| | 30 | 9.831263 | 22 | 9.964968 | 42 | 0.035032 | 9.866295 | 20 | 30 | |
| | 40 | 9.831286 | 23 | 9.965011 | 43 | 0.034989 | 9.866276 | 19 | 20 | |
| | 50 | 9.831309 | 23 | 9.965053 | 42 | 0.034947 | 9.866256 | 19 | 10 | |
| 42 | 0 | 9.831332 | 23 | 9.965095 | 42 | 0.034905 | 9.866237 | 20 | 0 | 18 |
| | 10 | 9.831355 | 23 | 9.965137 | 42 | 0.034863 | 9.866217 | 19 | 50 | |
| | 20 | 9.831378 | 22 | 9.965180 | 43 | 0.034820 | 9.866198 | 19 | 40 | |
| | 30 | 9.831400 | 22 | 9.965222 | 42 | 0.034778 | 9.866179 | 19 | 30 | |
| | 40 | 9.831423 | 23 | 9.965264 | 42 | 0.034736 | 9.866159 | 19 | 20 | |
| | 50 | 9.831446 | 23 | 9.965306 | 42 | 0.034694 | 9.866140 | 20 | 10 | |
| 43 | 0 | 9.831469 | 23 | 9.965349 | 43 | 0.034651 | 9.866120 | 20 | 0 | 17 |
| | 10 | 9.831492 | 23 | 9.965391 | 42 | 0.034609 | 9.866101 | 19 | 50 | |
| | 20 | 9.831514 | 22 | 9.965433 | 42 | 0.034567 | 9.866081 | 19 | 40 | |
| | 30 | 9.831537 | 23 | 9.965475 | 42 | 0.034525 | 9.866062 | 19 | 30 | |
| | 40 | 9.831560 | 23 | 9.965518 | 43 | 0.034482 | 9.866042 | 19 | 20 | |
| | 50 | 9.831583 | 23 | 9.965560 | 42 | 0.034440 | 9.866023 | 19 | 10 | |
| 44 | 0 | 9.831606 | 22 | 9.965602 | 42 | 0.034398 | 9.866004 | 20 | 0 | 16 |
| | 10 | 9.831628 | 23 | 9.965644 | 42 | 0.034356 | 9.865984 | 19 | 50 | |
| | 20 | 9.831651 | 23 | 9.965687 | 43 | 0.034313 | 9.865965 | 20 | 40 | |
| | 30 | 9.831674 | 23 | 9.965729 | 42 | 0.034271 | 9.865945 | 19 | 30 | |
| | 40 | 9.831697 | 23 | 9.965771 | 42 | 0.034229 | 9.865926 | 19 | 20 | |
| | 50 | 9.831720 | 22 | 9.965813 | 42 | 0.034187 | 9.865906 | 19 | 10 | |
| 45 | 0 | 9.831742 | 23 | 9.965855 | 43 | 0.034145 | 9.865887 | 20 | 0 | 15 |
| | 10 | 9.831765 | 23 | 9.965898 | 42 | 0.034102 | 9.865867 | 19 | 50 | |
| | 20 | 9.831788 | 23 | 9.965940 | 42 | 0.034060 | 9.865848 | 20 | 40 | |
| | 30 | 9.831811 | 22 | 9.965982 | 42 | 0.034018 | 9.865828 | 19 | 30 | |
| | 40 | 9.831833 | 22 | 9.966024 | 42 | 0.033976 | 9.865809 | 19 | 20 | |
| | 50 | 9.831856 | 23 | 9.966067 | 43 | 0.033934 | 9.865790 | 20 | 10 | |
| 46 | 0 | 9.831879 | 23 | 9.966109 | 42 | 0.033892 | 9.865771 | 19 | 0 | 14 |
| | 10 | 9.831902 | 22 | 9.966151 | 42 | 0.033849 | 9.865751 | 19 | 50 | |
| | 20 | 9.831924 | 23 | 9.966193 | 42 | 0.033807 | 9.865731 | 20 | 40 | |
| | 30 | 9.831947 | 23 | 9.966236 | 43 | 0.033764 | 9.865712 | 20 | 30 | |
| | 40 | 9.831970 | 23 | 9.966278 | 42 | 0.033722 | 9.865692 | 20 | 20 | |
| | 50 | 9.831993 | 22 | 9.966320 | 42 | 0.033680 | 9.865673 | 19 | 10 | |
| 47 | 0 | 9.832015 | 23 | 9.966362 | 42 | 0.033638 | 9.865653 | 20 | 0 | 13 |
| | 10 | 9.832038 | 23 | 9.966405 | 43 | 0.033595 | 9.865634 | 20 | 50 | |
| | 20 | 9.832061 | 23 | 9.966447 | 42 | 0.033553 | 9.865614 | 19 | 40 | |
| | 30 | 9.832084 | 22 | 9.966489 | 42 | 0.033511 | 9.865595 | 20 | 30 | |
| | 40 | 9.832106 | 22 | 9.966531 | 42 | 0.033469 | 9.865575 | 20 | 20 | |
| | 50 | 9.832129 | 23 | 9.966574 | 43 | 0.033426 | 9.865556 | 19 | 10 | |
| 48 | 0 | 9.832152 | 23 | 9.966616 | 42 | 0.033384 | 9.865536 | 20 | 0 | 12 |
| | 10 | 9.832175 | 22 | 9.966658 | 42 | 0.033342 | 9.865517 | 19 | 50 | |
| | 20 | 9.832197 | 22 | 9.966700 | 42 | 0.033300 | 9.865497 | 20 | 40 | |
| | 30 | 9.832220 | 23 | 9.966742 | 42 | 0.033258 | 9.865478 | 20 | 30 | |
| | 40 | 9.832243 | 23 | 9.966785 | 43 | 0.033215 | 9.865458 | 20 | 20 | |
| | 50 | 9.832266 | 22 | 9.966827 | 42 | 0.033173 | 9.865439 | 19 | 10 | |
| 49 | 0 | 9.832288 | 23 | 9.966869 | 42 | 0.033131 | 9.865419 | 20 | 0 | 11 |
| | 10 | 9.832311 | 23 | 9.966911 | 42 | 0.033089 | 9.865400 | 19 | 50 | |
| | 20 | 9.832334 | 23 | 9.966954 | 43 | 0.033046 | 9.865380 | 20 | 40 | |
| | 30 | 9.832356 | 22 | 9.966996 | 42 | 0.033004 | 9.865361 | 19 | 30 | |
| | 40 | 9.832379 | 23 | 9.967038 | 42 | 0.032962 | 9.865341 | 20 | 20 | |
| | 50 | 9.832402 | 23 | 9.967080 | 42 | 0.032920 | 9.865322 | 19 | 10 | |
| 50 | 0 | 9.832425 | 23 | 9.967123 | 43 | 0.032877 | 9.865302 | 20 | 0 | 10 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.832425 | 22 | 9.967123 | 42 | 0.032877 | 9.865202 | 19 | 0 | 10 |
| | 10 | 9.832447 | 23 | 9.967165 | 42 | 0.032855 | 9.865235 | 20 | 50 | |
| | 20 | 9.832470 | 23 | 9.967207 | 42 | 0.032793 | 9.865263 | 20 | 40 | |
| | 30 | 9.832493 | 22 | 9.967249 | 42 | 0.032751 | 9.865244 | 20 | 30 | |
| | 40 | 9.832515 | 23 | 9.967291 | 42 | 0.032709 | 9.865224 | 20 | 20 | |
| | 50 | 9.832538 | 23 | 9.967334 | 43 | 0.032666 | 9.865204 | 20 | 10 | |
| 51 | 0 | 9.832561 | 23 | 9.967376 | 42 | 0.032624 | 9.865185 | 19 | 0 | 9 |
| | 10 | 9.832584 | 22 | 9.967418 | 42 | 0.032582 | 9.865165 | 20 | 50 | |
| | 20 | 9.832606 | 23 | 9.967460 | 42 | 0.032540 | 9.865146 | 19 | 40 | |
| | 30 | 9.832629 | 23 | 9.967503 | 42 | 0.032497 | 9.865126 | 19 | 30 | |
| | 40 | 9.832652 | 23 | 9.967545 | 42 | 0.032455 | 9.865107 | 19 | 20 | |
| | 50 | 9.832674 | 22 | 9.967587 | 42 | 0.032413 | 9.865087 | 20 | 10 | |
| 52 | 0 | 9.832697 | 23 | 9.967629 | 43 | 0.032371 | 9.865068 | 19 | 0 | 8 |
| | 10 | 9.832720 | 23 | 9.967672 | 42 | 0.032328 | 9.865048 | 20 | 50 | |
| | 20 | 9.832742 | 22 | 9.967714 | 42 | 0.032286 | 9.865029 | 19 | 40 | |
| | 30 | 9.832765 | 23 | 9.967756 | 42 | 0.032244 | 9.865009 | 19 | 30 | |
| | 40 | 9.832788 | 23 | 9.967798 | 42 | 0.032202 | 9.864990 | 19 | 20 | |
| | 50 | 9.832810 | 22 | 9.967840 | 43 | 0.032160 | 9.864970 | 20 | 10 | |
| 53 | 0 | 9.832833 | 23 | 9.967883 | 42 | 0.032117 | 9.864950 | 19 | 0 | 7 |
| | 10 | 9.832856 | 23 | 9.967925 | 42 | 0.032075 | 9.864931 | 20 | 50 | |
| | 20 | 9.832878 | 22 | 9.967967 | 42 | 0.032033 | 9.864911 | 19 | 40 | |
| | 30 | 9.832901 | 23 | 9.968009 | 43 | 0.031991 | 9.864892 | 20 | 30 | |
| | 40 | 9.832924 | 23 | 9.968052 | 42 | 0.031948 | 9.864872 | 19 | 20 | |
| | 50 | 9.832946 | 22 | 9.968094 | 42 | 0.031906 | 9.864853 | 19 | 10 | |
| 54 | 0 | 9.832969 | 23 | 9.968136 | 42 | 0.031864 | 9.864833 | 20 | 0 | 6 |
| | 10 | 9.832992 | 23 | 9.968178 | 42 | 0.031822 | 9.864813 | 20 | 50 | |
| | 20 | 9.833014 | 22 | 9.968220 | 42 | 0.031780 | 9.864794 | 19 | 40 | |
| | 30 | 9.833037 | 23 | 9.968263 | 42 | 0.031737 | 9.864774 | 19 | 30 | |
| | 40 | 9.833060 | 23 | 9.968305 | 42 | 0.031695 | 9.864755 | 20 | 20 | |
| | 50 | 9.833082 | 22 | 9.968347 | 42 | 0.031653 | 9.864735 | 19 | 10 | |
| 55 | 0 | 9.833105 | 23 | 9.968389 | 43 | 0.031611 | 9.864716 | 20 | 0 | 5 |
| | 10 | 9.833128 | 22 | 9.968432 | 42 | 0.031568 | 9.864696 | 20 | 50 | |
| | 20 | 9.833150 | 22 | 9.968474 | 42 | 0.031526 | 9.864676 | 20 | 40 | |
| | 30 | 9.833173 | 23 | 9.968516 | 42 | 0.031484 | 9.864657 | 19 | 30 | |
| | 40 | 9.833195 | 23 | 9.968558 | 42 | 0.031442 | 9.864637 | 20 | 20 | |
| | 50 | 9.833218 | 22 | 9.968600 | 43 | 0.031400 | 9.864618 | 19 | 10 | |
| 56 | 0 | 9.833241 | 23 | 9.968643 | 42 | 0.031357 | 9.864598 | 20 | 0 | 4 |
| | 10 | 9.833263 | 22 | 9.968685 | 42 | 0.031315 | 9.864579 | 19 | 50 | |
| | 20 | 9.833286 | 23 | 9.968727 | 42 | 0.031273 | 9.864559 | 20 | 40 | |
| | 30 | 9.833309 | 23 | 9.968769 | 42 | 0.031231 | 9.864539 | 20 | 30 | |
| | 40 | 9.833331 | 22 | 9.968812 | 43 | 0.031188 | 9.864520 | 19 | 20 | |
| | 50 | 9.833354 | 23 | 9.968854 | 42 | 0.031146 | 9.864500 | 20 | 10 | |
| 57 | 0 | 9.833377 | 23 | 9.968896 | 42 | 0.031104 | 9.864481 | 19 | 0 | 3 |
| | 10 | 9.833399 | 22 | 9.968938 | 42 | 0.031062 | 9.864461 | 20 | 50 | |
| | 20 | 9.833422 | 23 | 9.968980 | 42 | 0.031020 | 9.864441 | 20 | 40 | |
| | 30 | 9.833444 | 22 | 9.969023 | 43 | 0.030977 | 9.864422 | 19 | 30 | |
| | 40 | 9.833467 | 23 | 9.969065 | 42 | 0.030935 | 9.864402 | 20 | 20 | |
| | 50 | 9.833490 | 23 | 9.969107 | 42 | 0.030893 | 9.864383 | 19 | 10 | |
| 58 | 0 | 9.833512 | 22 | 9.969149 | 42 | 0.030851 | 9.864363 | 20 | 0 | 2 |
| | 10 | 9.833535 | 23 | 9.969192 | 42 | 0.030808 | 9.864343 | 20 | 50 | |
| | 20 | 9.833557 | 22 | 9.969234 | 42 | 0.030765 | 9.864324 | 19 | 40 | |
| | 30 | 9.833580 | 23 | 9.969276 | 42 | 0.030724 | 9.864304 | 20 | 30 | |
| | 40 | 9.833603 | 23 | 9.969318 | 42 | 0.030682 | 9.864284 | 20 | 20 | |
| | 50 | 9.833625 | 22 | 9.969360 | 43 | 0.030640 | 9.864265 | 19 | 10 | |
| 59 | 0 | 9.833648 | 23 | 9.969403 | 42 | 0.030597 | 9.864245 | 20 | 0 | 1 |
| | 10 | 9.833670 | 22 | 9.969445 | 42 | 0.030555 | 9.864226 | 19 | 50 | |
| | 20 | 9.833693 | 23 | 9.969487 | 42 | 0.030513 | 9.864206 | 20 | 40 | |
| | 30 | 9.833716 | 23 | 9.969529 | 42 | 0.030471 | 9.864186 | 20 | 30 | |
| | 40 | 9.833738 | 22 | 9.969571 | 42 | 0.030429 | 9.864167 | 19 | 20 | |
| | 50 | 9.833761 | 23 | 9.969614 | 43 | 0.030386 | 9.864147 | 20 | 10 | |
| 60 | 0 | 9.833783 | 22 | 9.969656 | 42 | 0.030344 | 9.864127 | 20 | 0 | 0 |

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| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |
|---|---|-----|----|------|-------|------|-----|----|---|---|
|---|---|-----|----|------|-------|------|-----|----|---|---|

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|------|----------|----------|----|----|----|
| 43 | 0 | 9.833783 | 23 | 9.969656 | 42 | 0.030344 | 9.864127 | 19 | 0 | 60 |
| 1 4.3 | 10 | 9.833806 | 22 | 9.969698 | 42 | 0.030322 | 9.864128 | 20 | 50 | |
| 2 8.6 | 20 | 9.833828 | 20 | 9.969740 | 42 | 0.030260 | 9.864088 | 20 | 40 | |
| 3 12.9 | 30 | 9.833851 | 23 | 9.969783 | 43 | 0.030217 | 9.864069 | 19 | 30 | |
| 4 17.2 | 40 | 9.833874 | 23 | 9.969825 | 42 | 0.030175 | 9.864049 | 20 | 20 | |
| 5 21.5 | 50 | 9.833896 | 22 | 9.969867 | 42 | 0.030133 | 9.864029 | 19 | 10 | |
| 6 25.8 | 1 | 9.833919 | 23 | 9.969909 | 42 | 0.030091 | 9.864010 | 20 | 0 | 59 |
| 7 30.1 | 10 | 9.833941 | 23 | 9.969951 | 43 | 0.030049 | 9.863990 | 20 | 50 | |
| 8 34.4 | 20 | 9.833964 | 23 | 9.969994 | 43 | 0.030006 | 9.863970 | 20 | 40 | |
| 9 38.7 | 30 | 9.833986 | 22 | 9.970036 | 42 | 0.029964 | 9.863951 | 19 | 30 | |
| | 40 | 9.834009 | 23 | 9.970078 | 42 | 0.029922 | 9.863931 | 20 | 20 | |
| | 50 | 9.834032 | 23 | 9.970120 | 42 | 0.029880 | 9.863911 | 19 | 10 | |
| 42 | 2 | 9.834054 | 23 | 9.970162 | 43 | 0.029838 | 9.863892 | 20 | 0 | 58 |
| 1 4.2 | 10 | 9.834077 | 22 | 9.970205 | 42 | 0.029795 | 9.863872 | 20 | 50 | |
| 2 8.4 | 20 | 9.834099 | 22 | 9.970247 | 42 | 0.029753 | 9.863852 | 20 | 40 | |
| 3 12.6 | 30 | 9.834122 | 23 | 9.970289 | 42 | 0.029711 | 9.863833 | 19 | 30 | |
| 4 16.8 | 40 | 9.834144 | 23 | 9.970331 | 42 | 0.029669 | 9.863813 | 20 | 20 | |
| 5 21.0 | 50 | 9.834167 | 23 | 9.970373 | 42 | 0.029627 | 9.863793 | 19 | 10 | |
| 6 25.2 | 3 | 9.834189 | 22 | 9.970416 | 43 | 0.029585 | 9.863774 | 20 | 0 | 57 |
| 7 29.4 | 10 | 9.834212 | 22 | 9.970458 | 42 | 0.029542 | 9.863754 | 20 | 50 | |
| 8 33.6 | 20 | 9.834234 | 22 | 9.970500 | 42 | 0.029500 | 9.863734 | 20 | 40 | |
| 9 37.8 | 30 | 9.834257 | 23 | 9.970542 | 42 | 0.029458 | 9.863715 | 19 | 30 | |
| | 40 | 9.834280 | 23 | 9.970584 | 42 | 0.029416 | 9.863695 | 20 | 20 | |
| * | 50 | 9.834302 | 22 | 9.970627 | 43 | 0.029373 | 9.863675 | 20 | 10 | |
| | 4 | 9.834325 | 23 | 9.970669 | 42 | 0.029331 | 9.863656 | 20 | 0 | 56 |
| | 10 | 9.834347 | 23 | 9.970711 | 42 | 0.029289 | 9.863636 | 20 | 50 | |
| 23 | 20 | 9.834370 | 23 | 9.970753 | 42 | 0.029247 | 9.863616 | 20 | 40 | |
| 1 2.3 | 30 | 9.834392 | 22 | 9.970796 | 43 | 0.029204 | 9.863597 | 19 | 30 | |
| 2 4.6 | 40 | 9.834415 | 23 | 9.970838 | 42 | 0.029162 | 9.863577 | 20 | 20 | |
| 3 6.9 | 50 | 9.834437 | 22 | 9.970880 | 42 | 0.029120 | 9.863557 | 19 | 10 | |
| 4 9.2 | 5 | 9.834460 | 23 | 9.970922 | 42 | 0.029078 | 9.863538 | 20 | 0 | 55 |
| 5 11.5 | 10 | 9.834482 | 23 | 9.970964 | 43 | 0.029036 | 9.863518 | 20 | 50 | |
| 6 13.8 | 20 | 9.834505 | 22 | 9.971007 | 42 | 0.028993 | 9.863498 | 20 | 40 | |
| 7 16.1 | 30 | 9.834527 | 22 | 9.971049 | 42 | 0.028951 | 9.863478 | 20 | 30 | |
| 8 18.4 | 40 | 9.834550 | 23 | 9.971091 | 42 | 0.028909 | 9.863459 | 19 | 20 | |
| 9 20.7 | 50 | 9.834572 | 22 | 9.971133 | 42 | 0.028867 | 9.863439 | 20 | 10 | |
| | 6 | 9.834595 | 23 | 9.971175 | 42 | 0.028825 | 9.863419 | 19 | 0 | 54 |
| 22 | 10 | 9.834617 | 22 | 9.971218 | 43 | 0.028782 | 9.863400 | 20 | 50 | |
| 1 2.2 | 20 | 9.834640 | 22 | 9.971260 | 42 | 0.028740 | 9.863380 | 20 | 40 | |
| 2 4.4 | 30 | 9.834662 | 22 | 9.971302 | 42 | 0.028698 | 9.863360 | 20 | 30 | |
| 3 6.6 | 40 | 9.834685 | 23 | 9.971344 | 42 | 0.028656 | 9.863341 | 19 | 20 | |
| 4 8.8 | 50 | 9.834707 | 22 | 9.971386 | 42 | 0.028614 | 9.863321 | 20 | 10 | |
| 5 11.0 | 7 | 9.834730 | 23 | 9.971429 | 43 | 0.028571 | 9.863301 | 20 | 0 | 53 |
| 6 13.2 | 10 | 9.834752 | 22 | 9.971471 | 42 | 0.028529 | 9.863281 | 20 | 50 | |
| 7 15.4 | 20 | 9.834775 | 22 | 9.971513 | 42 | 0.028487 | 9.863262 | 19 | 40 | |
| 8 17.6 | 30 | 9.834797 | 22 | 9.971555 | 42 | 0.028445 | 9.863242 | 20 | 30 | |
| 9 19.8 | 40 | 9.834820 | 23 | 9.971597 | 42 | 0.028403 | 9.863222 | 20 | 20 | |
| | 50 | 9.834842 | 22 | 9.971640 | 43 | 0.028360 | 9.863203 | 19 | 10 | |
| * | 8 | 9.834865 | 23 | 9.971682 | 42 | 0.028318 | 9.863183 | 20 | 0 | 52 |
| | 10 | 9.834887 | 22 | 9.971724 | 42 | 0.028276 | 9.863163 | 20 | 50 | |
| | 20 | 9.834910 | 23 | 9.971766 | 42 | 0.028234 | 9.863143 | 20 | 40 | |
| | 30 | 9.834932 | 22 | 9.971808 | 42 | 0.028192 | 9.863124 | 19 | 30 | |
| 19 | 40 | 9.834954 | 23 | 9.971851 | 43 | 0.028149 | 9.863104 | 20 | 20 | |
| 1 1.9 | 50 | 9.834977 | 22 | 9.971893 | 42 | 0.028107 | 9.863084 | 20 | 10 | |
| 2 3.8 | 9 | 9.834999 | 23 | 9.971935 | 42 | 0.028065 | 9.863064 | 19 | 0 | 51 |
| 3 5.7 | 10 | 9.835022 | 23 | 9.971977 | 42 | 0.028023 | 9.863045 | 20 | 50 | |
| 4 7.6 | 20 | 9.835044 | 22 | 9.972019 | 42 | 0.027981 | 9.863025 | 20 | 40 | |
| 5 9.5 | 30 | 9.835067 | 23 | 9.972062 | 43 | 0.027938 | 9.863005 | 20 | 30 | |
| 6 11.4 | 40 | 9.835089 | 22 | 9.972104 | 42 | 0.027896 | 9.862985 | 20 | 20 | |
| 7 13.3 | 50 | 9.835112 | 23 | 9.972146 | 42 | 0.027854 | 9.862966 | 19 | 10 | |
| 8 15.2 | 10 | 9.835134 | 22 | 9.972188 | 42 | 0.027812 | 9.862946 | 20 | 0 | 50 |
| 9 17.1 | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.835134 | 23 | 9.972188 | 42 | 0.027812 | 9.862946 | 20 | 0 | 50 |
| | 10 | 9.835157 | 22 | 9.972230 | 43 | 0.027770 | 9.862926 | 20 | 50 | |
| | 20 | 9.835179 | 22 | 9.972273 | 42 | 0.027727 | 9.862906 | 20 | 40 | |
| | 30 | 9.835201 | 23 | 9.972315 | 42 | 0.027685 | 9.862887 | 19 | 30 | |
| | 40 | 9.835224 | 22 | 9.972357 | 42 | 0.027643 | 9.862867 | 20 | 20 | |
| | 50 | 9.835246 | 23 | 9.972399 | 42 | 0.027601 | 9.862847 | 20 | 10 | |
| 11 | 0 | 9.835269 | 22 | 9.972441 | 43 | 0.027559 | 9.862827 | 19 | 0 | 49 |
| | 10 | 9.835291 | 23 | 9.972484 | 42 | 0.027517 | 9.862807 | 20 | 50 | |
| | 20 | 9.835314 | 22 | 9.972526 | 42 | 0.027474 | 9.862788 | 20 | 40 | |
| | 30 | 9.835336 | 22 | 9.972568 | 42 | 0.027432 | 9.862768 | 20 | 30 | |
| | 40 | 9.835358 | 23 | 9.972610 | 42 | 0.027390 | 9.862748 | 20 | 20 | |
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| 12 | 0 | 9.835403 | 23 | 9.972695 | 42 | 0.027305 | 9.862709 | 20 | 0 | 48 |
| | 10 | 9.835426 | 22 | 9.972737 | 42 | 0.027263 | 9.862689 | 20 | 50 | |
| | 20 | 9.835448 | 23 | 9.972779 | 42 | 0.027221 | 9.862669 | 20 | 40 | |
| | 30 | 9.835471 | 22 | 9.972821 | 42 | 0.027179 | 9.862650 | 19 | 30 | |
| | 40 | 9.835493 | 22 | 9.972863 | 42 | 0.027137 | 9.862630 | 20 | 20 | |
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| 13 | 0 | 9.835538 | 22 | 9.972948 | 42 | 0.027052 | 9.862590 | 20 | 0 | 47 |
| | 10 | 9.835560 | 23 | 9.972990 | 42 | 0.027010 | 9.862570 | 20 | 50 | |
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| 16 | 0 | 9.835941 | 22 | 9.973707 | 42 | 0.026293 | 9.862234 | 20 | 0 | 44 |
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| | 40 | 9.836030 | 22 | 9.973876 | 42 | 0.026124 | 9.862154 | 20 | 20 | |
| | 50 | 9.836053 | 23 | 9.973918 | 42 | 0.026082 | 9.862135 | 19 | 10 | |
| 17 | 0 | 9.836075 | 22 | 9.973960 | 42 | 0.026040 | 9.862115 | 20 | 0 | 43 |
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| | 50 | 9.836187 | 23 | 9.974171 | 42 | 0.025829 | 9.862016 | 19 | 10 | |
| 18 | 0 | 9.836209 | 22 | 9.974213 | 42 | 0.025787 | 9.861996 | 20 | 0 | 42 |
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| | 50 | 9.836321 | 23 | 9.974424 | 42 | 0.025576 | 9.861897 | 19 | 10 | |
| 19 | 0 | 9.836343 | 22 | 9.974466 | 42 | 0.025534 | 9.861877 | 20 | 0 | 41 |
| | 10 | 9.836365 | 23 | 9.974509 | 43 | 0.025491 | 9.861857 | 20 | 50 | |
| | 20 | 9.836388 | 23 | 9.974551 | 42 | 0.025449 | 9.861837 | 20 | 40 | |
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| | 50 | 9.836455 | 23 | 9.974677 | 42 | 0.025323 | 9.861777 | 20 | 10 | |
| 20 | 0 | 9.836477 | 22 | 9.974720 | 43 | 0.025280 | 9.861758 | 19 | 0 | 40 |

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| | ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|---|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | | 9.836477 | 22 | 9.974720 | 42 | 0.025280 | 9.861758 | 20 | 0 | 40 |
| | 10 | | 9.836499 | 23 | 9.974762 | 42 | 0.025238 | 9.861738 | 20 | 50 | |
| | 20 | | 9.836522 | 22 | 9.974804 | 42 | 0.025196 | 9.861718 | 20 | 40 | |
| | 30 | | 9.836544 | 22 | 9.974846 | 42 | 0.025154 | 9.861698 | 20 | 30 | |
| | 40 | | 9.836566 | 22 | 9.974888 | 42 | 0.025112 | 9.861678 | 20 | 20 | |
| | 50 | | 9.836589 | 23 | 9.974930 | 42 | 0.025070 | 9.861658 | 20 | 10 | |
| 21 | 0 | | 9.836611 | 22 | 9.974973 | 43 | 0.025027 | 9.861638 | 20 | 0 | 39 |
| | 10 | | 9.836633 | 22 | 9.975015 | 42 | 0.024985 | 9.861618 | 20 | 50 | |
| | 20 | | 9.836656 | 23 | 9.975057 | 42 | 0.024943 | 9.861599 | 19 | 40 | |
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| | 40 | | 9.836700 | 22 | 9.975141 | 42 | 0.024859 | 9.861559 | 20 | 20 | |
| | 50 | | 9.836722 | 23 | 9.975183 | 42 | 0.024817 | 9.861539 | 20 | 10 | |
| 22 | 0 | | 9.836745 | 22 | 9.975226 | 42 | 0.024775 | 9.861519 | 20 | 0 | 38 |
| | 10 | | 9.836767 | 22 | 9.975268 | 42 | 0.024732 | 9.861499 | 20 | 50 | |
| | 20 | | 9.836789 | 22 | 9.975310 | 42 | 0.024690 | 9.861479 | 20 | 40 | |
| | 30 | | 9.836812 | 23 | 9.975352 | 42 | 0.024648 | 9.861459 | 20 | 30 | |
| | 40 | | 9.836834 | 22 | 9.975394 | 42 | 0.024606 | 9.861439 | 20 | 20 | |
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| 23 | 0 | | 9.836878 | 22 | 9.975479 | 42 | 0.024521 | 9.861400 | 20 | 0 | 37 |
| | 10 | | 9.836901 | 23 | 9.975521 | 42 | 0.024479 | 9.861380 | 20 | 50 | |
| | 20 | | 9.836923 | 22 | 9.975563 | 42 | 0.024437 | 9.861360 | 20 | 40 | |
| | 30 | | 9.836945 | 22 | 9.975605 | 42 | 0.024395 | 9.861340 | 20 | 30 | |
| | 40 | | 9.836968 | 23 | 9.975647 | 42 | 0.024353 | 9.861320 | 20 | 20 | |
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| 24 | 0 | | 9.837012 | 22 | 9.975732 | 42 | 0.024268 | 9.861280 | 20 | 0 | 36 |
| | 10 | | 9.837034 | 22 | 9.975774 | 42 | 0.024226 | 9.861260 | 20 | 50 | |
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| 25 | 0 | | 9.837146 | 22 | 9.975985 | 42 | 0.024015 | 9.861161 | 20 | 0 | 35 |
| | 10 | | 9.837168 | 22 | 9.976027 | 42 | 0.023973 | 9.861141 | 20 | 50 | |
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| 26 | 0 | | 9.837279 | 22 | 9.976238 | 42 | 0.023762 | 9.861041 | 20 | 0 | 34 |
| | 10 | | 9.837301 | 22 | 9.976280 | 42 | 0.023720 | 9.861021 | 20 | 50 | |
| | 20 | | 9.837324 | 23 | 9.976322 | 42 | 0.023678 | 9.861001 | 20 | 40 | |
| | 30 | | 9.837346 | 22 | 9.976364 | 42 | 0.023636 | 9.860981 | 20 | 30 | |
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| | 50 | | 9.837390 | 22 | 9.976449 | 42 | 0.023551 | 9.860941 | 20 | 10 | |
| 27 | 0 | | 9.837412 | 22 | 9.976491 | 42 | 0.023509 | 9.860921 | 19 | 0 | 33 |
| | 10 | | 9.837435 | 23 | 9.976533 | 42 | 0.023467 | 9.860902 | 20 | 50 | |
| | 20 | | 9.837457 | 22 | 9.976575 | 42 | 0.023425 | 9.860882 | 20 | 40 | |
| | 30 | | 9.837479 | 22 | 9.976617 | 42 | 0.023383 | 9.860862 | 20 | 30 | |
| | 40 | | 9.837501 | 22 | 9.976660 | 43 | 0.023340 | 9.860842 | 20 | 20 | |
| | 50 | | 9.837524 | 23 | 9.976702 | 42 | 0.023298 | 9.860822 | 20 | 10 | |
| 28 | 0 | | 9.837546 | 22 | 9.976744 | 42 | 0.023256 | 9.860802 | 20 | 0 | 32 |
| | 10 | | 9.837568 | 22 | 9.976786 | 42 | 0.023214 | 9.860782 | 20 | 50 | |
| | 20 | | 9.837590 | 22 | 9.976828 | 42 | 0.023172 | 9.860762 | 20 | 40 | |
| | 30 | | 9.837612 | 22 | 9.976870 | 42 | 0.023130 | 9.860742 | 20 | 30 | |
| | 40 | | 9.837635 | 23 | 9.976913 | 43 | 0.023087 | 9.860722 | 20 | 20 | |
| | 50 | | 9.837657 | 22 | 9.976955 | 42 | 0.023045 | 9.860702 | 20 | 10 | |
| 29 | 0 | | 9.837679 | 22 | 9.976997 | 42 | 0.023003 | 9.860682 | 20 | 0 | 31 |
| | 10 | | 9.837701 | 22 | 9.977039 | 42 | 0.022961 | 9.860662 | 20 | 50 | |
| | 20 | | 9.837723 | 22 | 9.977081 | 42 | 0.022919 | 9.860642 | 20 | 40 | |
| | 30 | | 9.837746 | 23 | 9.977123 | 42 | 0.022877 | 9.860622 | 20 | 30 | |
| | 40 | | 9.837768 | 22 | 9.977166 | 43 | 0.022834 | 9.860602 | 20 | 20 | |
| | 50 | | 9.837790 | 22 | 9.977208 | 42 | 0.022792 | 9.860582 | 20 | 10 | |
| 30 | 0 | | 9.837812 | 22 | 9.977250 | 42 | 0.022750 | 9.860562 | 20 | 0 | 30 |
| | ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 30 | 0. | 9.837812 | 22 | 9.977250 | 42 | 0.022250 | 9.860562 | 20 | 0 | 30 |
| | 10 | 9.837834 | 23 | 9.977292 | 42 | 0.022278 | 9.860540 | 20 | 50 | |
| | 20 | 9.837857 | 22 | 9.977334 | 43 | 0.022266 | 9.860522 | 20 | 40 | |
| | 30 | 9.837879 | 22 | 9.977377 | 42 | 0.022262 | 9.860502 | 20 | 30 | |
| | 40 | 9.837901 | 22 | 9.977419 | 42 | 0.022258 | 9.860482 | 20 | 20 | |
| | 50 | 9.837923 | 22 | 9.977461 | 42 | 0.022253 | 9.860462 | 20 | 10 | |
| 31 | 0 | 9.837945 | 22 | 9.977503 | 42 | 0.022249 | 9.860442 | 20 | 0 | 29 |
| | 10 | 9.837967 | 23 | 9.977545 | 42 | 0.022245 | 9.860422 | 20 | 50 | |
| | 20 | 9.837990 | 22 | 9.977587 | 42 | 0.022241 | 9.860402 | 20 | 40 | |
| | 30 | 9.838012 | 22 | 9.977630 | 43 | 0.022237 | 9.860382 | 20 | 30 | |
| | 40 | 9.838034 | 22 | 9.977672 | 42 | 0.022232 | 9.860362 | 20 | 20 | |
| | 50 | 9.838056 | 22 | 9.977714 | 42 | 0.022228 | 9.860342 | 20 | 10 | |
| 32 | 0 | 9.838078 | 22 | 9.977756 | 42 | 0.022224 | 9.860322 | 20 | 0 | 28 |
| | 10 | 9.838100 | 23 | 9.977798 | 42 | 0.022220 | 9.860302 | 20 | 50 | |
| | 20 | 9.838123 | 22 | 9.977840 | 42 | 0.022216 | 9.860282 | 20 | 40 | |
| | 30 | 9.838145 | 22 | 9.977882 | 43 | 0.022211 | 9.860262 | 20 | 30 | |
| | 40 | 9.838167 | 22 | 9.977925 | 42 | 0.022207 | 9.860242 | 20 | 20 | |
| | 50 | 9.838189 | 22 | 9.977967 | 42 | 0.022203 | 9.860222 | 20 | 10 | |
| 33 | 0 | 9.838211 | 22 | 9.978009 | 42 | 0.021991 | 9.860202 | 20 | 0 | 27 |
| | 10 | 9.838233 | 23 | 9.978051 | 42 | 0.021949 | 9.860182 | 20 | 50 | |
| | 20 | 9.838256 | 22 | 9.978093 | 42 | 0.021907 | 9.860162 | 20 | 40 | |
| | 30 | 9.838278 | 22 | 9.978135 | 43 | 0.021865 | 9.860142 | 20 | 30 | |
| | 40 | 9.838300 | 22 | 9.978178 | 42 | 0.021822 | 9.860122 | 20 | 20 | |
| | 50 | 9.838322 | 22 | 9.978220 | 42 | 0.021780 | 9.860102 | 20 | 10 | |
| 34 | 0 | 9.838344 | 22 | 9.978262 | 42 | 0.021738 | 9.860082 | 20 | 0 | 26 |
| | 10 | 9.838366 | 22 | 9.978304 | 42 | 0.021696 | 9.860062 | 20 | 50 | |
| | 20 | 9.838388 | 22 | 9.978346 | 42 | 0.021654 | 9.860042 | 20 | 40 | |
| | 30 | 9.838410 | 22 | 9.978388 | 42 | 0.021612 | 9.860022 | 20 | 30 | |
| | 40 | 9.838433 | 23 | 9.978431 | 43 | 0.021569 | 9.860002 | 20 | 20 | |
| | 50 | 9.838455 | 22 | 9.978473 | 42 | 0.021527 | 9.859982 | 20 | 10 | |
| 35 | 0 | 9.838477 | 22 | 9.978515 | 42 | 0.021485 | 9.859962 | 20 | 0 | 25 |
| | 10 | 9.838499 | 22 | 9.978557 | 42 | 0.021443 | 9.859942 | 20 | 50 | |
| | 20 | 9.838521 | 22 | 9.978599 | 42 | 0.021401 | 9.859922 | 20 | 40 | |
| | 30 | 9.838543 | 22 | 9.978641 | 42 | 0.021359 | 9.859902 | 20 | 30 | |
| | 40 | 9.838565 | 22 | 9.978684 | 43 | 0.021316 | 9.859882 | 20 | 20 | |
| | 50 | 9.838587 | 23 | 9.978726 | 42 | 0.021274 | 9.859862 | 20 | 10 | |
| 36 | 0 | 9.838610 | 22 | 9.978768 | 42 | 0.021232 | 9.859842 | 20 | 0 | 24 |
| | 10 | 9.838632 | 22 | 9.978810 | 42 | 0.021190 | 9.859822 | 20 | 50 | |
| | 20 | 9.838654 | 22 | 9.978852 | 42 | 0.021148 | 9.859802 | 20 | 40 | |
| | 30 | 9.838676 | 22 | 9.978894 | 42 | 0.021106 | 9.859781 | 20 | 30 | |
| | 40 | 9.838698 | 22 | 9.978937 | 43 | 0.021063 | 9.859761 | 20 | 20 | |
| | 50 | 9.838720 | 22 | 9.978979 | 42 | 0.021021 | 9.859741 | 20 | 10 | |
| 37 | 0 | 9.838742 | 22 | 9.979021 | 42 | 0.020979 | 9.859721 | 20 | 0 | 23 |
| | 10 | 9.838764 | 22 | 9.979063 | 42 | 0.020937 | 9.859701 | 20 | 50 | |
| | 20 | 9.838786 | 22 | 9.979105 | 42 | 0.020895 | 9.859681 | 20 | 40 | |
| | 30 | 9.838808 | 22 | 9.979147 | 42 | 0.020853 | 9.859661 | 20 | 30 | |
| | 40 | 9.838831 | 23 | 9.979190 | 43 | 0.020810 | 9.859641 | 20 | 20 | |
| | 50 | 9.838853 | 22 | 9.979232 | 42 | 0.020768 | 9.859621 | 20 | 10 | |
| 38 | 0 | 9.838875 | 22 | 9.979274 | 42 | 0.020726 | 9.859601 | 20 | 0 | 22 |
| | 10 | 9.838897 | 22 | 9.979316 | 42 | 0.020684 | 9.859581 | 20 | 50 | |
| | 20 | 9.838919 | 22 | 9.979358 | 42 | 0.020642 | 9.859561 | 20 | 40 | |
| | 30 | 9.838941 | 22 | 9.979400 | 42 | 0.020600 | 9.859541 | 20 | 30 | |
| | 40 | 9.838963 | 22 | 9.979442 | 42 | 0.020558 | 9.859521 | 20 | 20 | |
| | 50 | 9.838985 | 22 | 9.979485 | 43 | 0.020515 | 9.859501 | 20 | 10 | |
| 39 | 0 | 9.839007 | 22 | 9.979527 | 42 | 0.020473 | 9.859480 | 20 | 0 | 21 |
| | 10 | 9.839029 | 22 | 9.979569 | 42 | 0.020431 | 9.859460 | 20 | 50 | |
| | 20 | 9.839051 | 22 | 9.979611 | 42 | 0.020389 | 9.859440 | 20 | 40 | |
| | 30 | 9.839073 | 22 | 9.979653 | 42 | 0.020347 | 9.859420 | 20 | 30 | |
| | 40 | 9.839095 | 22 | 9.979695 | 42 | 0.020305 | 9.859400 | 20 | 20 | |
| | 50 | 9.839118 | 23 | 9.979738 | 43 | 0.020262 | 9.859380 | 20 | 10 | |
| 40 | 0 | 9.839140 | 22 | 9.979780 | 42 | 0.020220 | 9.859360 | 20 | 0 | 20 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| | | Sin | d. | Tang | d. c. | Cotg | Cos | d. | | |
|--------|----|----------|----|----------|-------|----------|----------|----|----|----|
| 43 | 0 | 9.839140 | 22 | 9.979780 | 42 | 0.020220 | 9.859360 | 20 | 0 | 20 |
| 1 4.3 | 10 | 9.839162 | 22 | 9.979822 | 42 | 0.020178 | 9.859340 | 20 | 50 | |
| 2 8.6 | 20 | 9.839184 | 22 | 9.979864 | 42 | 0.020136 | 9.859320 | 20 | 40 | |
| 3 12.9 | 30 | 9.839206 | 22 | 9.979906 | 42 | 0.020094 | 9.859300 | 21 | 30 | |
| 4 17.2 | 40 | 9.839228 | 22 | 9.979948 | 42 | 0.020052 | 9.859279 | 20 | 20 | |
| 5 21.5 | 50 | 9.839250 | 22 | 9.979990 | 42 | 0.020010 | 9.859259 | 20 | 10 | |
| 6 25.8 | 0 | 9.839272 | 22 | 9.980033 | 43 | 0.019967 | 9.859239 | 20 | 0 | 19 |
| 7 30.1 | 10 | 9.839294 | 22 | 9.980075 | 42 | 0.019925 | 9.859219 | 20 | 50 | |
| 8 34.4 | 20 | 9.839316 | 22 | 9.980117 | 42 | 0.019883 | 9.859199 | 20 | 40 | |
| 9 38.7 | 30 | 9.839338 | 22 | 9.980159 | 42 | 0.019841 | 9.859179 | 20 | 30 | |
| | 40 | 9.839360 | 22 | 9.980201 | 42 | 0.019799 | 9.859159 | 20 | 20 | |
| | 50 | 9.839382 | 22 | 9.980243 | 42 | 0.019757 | 9.859139 | 20 | 10 | |
| | 0 | 9.839404 | 22 | 9.980286 | 43 | 0.019714 | 9.859119 | 21 | 0 | 18 |
| 1 4.2 | 10 | 9.839426 | 22 | 9.980328 | 42 | 0.019672 | 9.859098 | 20 | 50 | |
| 2 8.4 | 20 | 9.839448 | 22 | 9.980370 | 42 | 0.019630 | 9.859078 | 20 | 40 | |
| 3 12.6 | 30 | 9.839470 | 22 | 9.980412 | 42 | 0.019588 | 9.859058 | 20 | 30 | |
| 4 16.8 | 40 | 9.839492 | 22 | 9.980454 | 42 | 0.019546 | 9.859038 | 20 | 20 | |
| 5 21.0 | 50 | 9.839514 | 22 | 9.980496 | 42 | 0.019504 | 9.859018 | 20 | 10 | |
| 6 25.2 | 0 | 9.839536 | 22 | 9.980538 | 42 | 0.019462 | 9.858998 | 20 | 0 | 17 |
| 7 29.4 | 10 | 9.839558 | 22 | 9.980581 | 43 | 0.019419 | 9.858978 | 20 | 50 | |
| 8 33.6 | 20 | 9.839580 | 22 | 9.980623 | 42 | 0.019377 | 9.858958 | 20 | 40 | |
| 9 37.8 | 30 | 9.839602 | 22 | 9.980665 | 42 | 0.019335 | 9.858937 | 21 | 30 | |
| | 40 | 9.839624 | 22 | 9.980707 | 42 | 0.019293 | 9.858917 | 20 | 20 | |
| | 50 | 9.839646 | 22 | 9.980749 | 42 | 0.019251 | 9.858897 | 20 | 10 | |
| * | 0 | 9.839668 | 22 | 9.980791 | 42 | 0.019209 | 9.858877 | 20 | 0 | 16 |
| | 10 | 9.839690 | 22 | 9.980834 | 43 | 0.019166 | 9.858857 | 20 | 50 | |
| 1 2.2 | 20 | 9.839712 | 22 | 9.980876 | 42 | 0.019124 | 9.858837 | 20 | 40 | |
| 2 4.4 | 30 | 9.839734 | 22 | 9.980918 | 42 | 0.019082 | 9.858817 | 20 | 30 | |
| 3 6.6 | 40 | 9.839756 | 22 | 9.980960 | 42 | 0.019040 | 9.858796 | 21 | 20 | |
| 4 8.8 | 50 | 9.839778 | 22 | 9.981002 | 42 | 0.018998 | 9.858776 | 20 | 10 | |
| 5 11.0 | 0 | 9.839800 | 22 | 9.981044 | 42 | 0.018956 | 9.858756 | 20 | 0 | 15 |
| 6 13.2 | 10 | 9.839822 | 22 | 9.981086 | 42 | 0.018914 | 9.858736 | 20 | 50 | |
| 7 15.4 | 20 | 9.839844 | 22 | 9.981129 | 43 | 0.018871 | 9.858716 | 20 | 40 | |
| 8 17.6 | 30 | 9.839866 | 22 | 9.981171 | 42 | 0.018829 | 9.858696 | 20 | 30 | |
| 9 19.8 | 40 | 9.839888 | 22 | 9.981213 | 42 | 0.018787 | 9.858675 | 21 | 20 | |
| | 50 | 9.839910 | 22 | 9.981255 | 42 | 0.018745 | 9.858655 | 20 | 10 | |
| | 0 | 9.839932 | 22 | 9.981297 | 42 | 0.018703 | 9.858635 | 20 | 0 | 14 |
| 1 2.1 | 10 | 9.839954 | 22 | 9.981339 | 42 | 0.018661 | 9.858615 | 20 | 50 | |
| 2 4.2 | 20 | 9.839976 | 22 | 9.981382 | 43 | 0.018618 | 9.858595 | 20 | 40 | |
| 3 6.3 | 30 | 9.839998 | 22 | 9.981424 | 42 | 0.018576 | 9.858575 | 20 | 30 | |
| 4 8.4 | 40 | 9.840020 | 22 | 9.981466 | 42 | 0.018534 | 9.858554 | 21 | 20 | |
| 5 10.5 | 50 | 9.840042 | 22 | 9.981508 | 42 | 0.018492 | 9.858534 | 20 | 10 | |
| 6 12.6 | 0 | 9.840064 | 22 | 9.981550 | 42 | 0.018450 | 9.858514 | 20 | 0 | 13 |
| 7 14.7 | 10 | 9.840086 | 22 | 9.981592 | 42 | 0.018408 | 9.858494 | 20 | 50 | |
| 8 16.8 | 20 | 9.840108 | 22 | 9.981634 | 43 | 0.018366 | 9.858474 | 20 | 40 | |
| 9 18.9 | 30 | 9.840130 | 22 | 9.981677 | 42 | 0.018323 | 9.858454 | 20 | 30 | |
| | 40 | 9.840152 | 22 | 9.981719 | 42 | 0.018281 | 9.858433 | 21 | 20 | |
| | 50 | 9.840174 | 22 | 9.981761 | 42 | 0.018239 | 9.858413 | 20 | 10 | |
| * | 0 | 9.840196 | 22 | 9.981803 | 42 | 0.018197 | 9.858393 | 20 | 0 | 12 |
| | 10 | 9.840218 | 22 | 9.981845 | 42 | 0.018155 | 9.858373 | 20 | 50 | |
| | 20 | 9.840240 | 22 | 9.981887 | 42 | 0.018113 | 9.858353 | 20 | 40 | |
| 1 2.0 | 30 | 9.840262 | 22 | 9.981929 | 42 | 0.018071 | 9.858332 | 21 | 30 | |
| 2 4.0 | 40 | 9.840284 | 22 | 9.981972 | 43 | 0.018028 | 9.858312 | 20 | 20 | |
| 3 6.0 | 50 | 9.840306 | 22 | 9.982014 | 42 | 0.017986 | 9.858292 | 20 | 10 | |
| 4 8.0 | 0 | 9.840328 | 22 | 9.982056 | 42 | 0.017944 | 9.858272 | 20 | 0 | 11 |
| 5 10.0 | 10 | 9.840350 | 22 | 9.982098 | 42 | 0.017902 | 9.858252 | 20 | 50 | |
| 6 12.0 | 20 | 9.840372 | 22 | 9.982140 | 42 | 0.017860 | 9.858231 | 21 | 40 | |
| 7 14.0 | 30 | 9.840393 | 22 | 9.982182 | 42 | 0.017818 | 9.858211 | 20 | 30 | |
| 8 16.0 | 40 | 9.840415 | 22 | 9.982224 | 42 | 0.017776 | 9.858191 | 20 | 20 | |
| 9 18.0 | 50 | 9.840437 | 22 | 9.982267 | 43 | 0.017733 | 9.858171 | 20 | 10 | |
| | 0 | 9.840459 | 22 | 9.982309 | 42 | 0.017691 | 9.858151 | 20 | 0 | 10 |
| | | Cos | d. | Cotg | d. c. | Tang | Sin | d. | | |

| ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 50 | 0 | 9.840459 | 22 | 9.982309 | 42 | 0.017691 | 9.858151 | 21 | 0 | 10 |
| | 10 | 9.840481 | 22 | 9.982351 | 42 | 0.017649 | 9.858130 | 20 | 50 | |
| | 20 | 9.840503 | 22 | 9.982393 | 42 | 0.017607 | 9.858110 | 20 | 40 | |
| | 30 | 9.840525 | 22 | 9.982435 | 42 | 0.017565 | 9.858090 | 20 | 30 | |
| | 40 | 9.840547 | 22 | 9.982477 | 42 | 0.017523 | 9.858070 | 20 | 20 | |
| | 50 | 9.840569 | 22 | 9.982519 | 43 | 0.017481 | 9.858049 | 21 | 10 | |
| 51 | 0 | 9.840591 | 22 | 9.982562 | 42 | 0.017438 | 9.858029 | 20 | 0 | 9 |
| | 10 | 9.840613 | 22 | 9.982604 | 42 | 0.017396 | 9.858009 | 20 | 50 | |
| | 20 | 9.840635 | 22 | 9.982646 | 42 | 0.017354 | 9.857989 | 20 | 40 | |
| | 30 | 9.840657 | 21 | 9.982688 | 42 | 0.017312 | 9.857968 | 21 | 30 | |
| | 40 | 9.840678 | 22 | 9.982730 | 42 | 0.017270 | 9.857948 | 20 | 20 | |
| | 50 | 9.840700 | 22 | 9.982772 | 42 | 0.017228 | 9.857928 | 20 | 10 | |
| 52 | 0 | 9.840722 | 22 | 9.982814 | 42 | 0.017186 | 9.857908 | 20 | 0 | 8 |
| | 10 | 9.840744 | 22 | 9.982857 | 43 | 0.017143 | 9.857888 | 21 | 50 | |
| | 20 | 9.840766 | 22 | 9.982899 | 42 | 0.017101 | 9.857867 | 20 | 40 | |
| | 30 | 9.840788 | 22 | 9.982941 | 42 | 0.017059 | 9.857847 | 20 | 30 | |
| | 40 | 9.840810 | 22 | 9.982983 | 42 | 0.017017 | 9.857827 | 20 | 20 | |
| | 50 | 9.840832 | 22 | 9.983025 | 42 | 0.016975 | 9.857807 | 21 | 10 | |
| 53 | 0 | 9.840854 | 22 | 9.983067 | 42 | 0.016933 | 9.857786 | 20 | 0 | 7 |
| | 10 | 9.840876 | 21 | 9.983109 | 43 | 0.016891 | 9.857766 | 20 | 50 | |
| | 20 | 9.840897 | 22 | 9.983152 | 42 | 0.016848 | 9.857746 | 20 | 40 | |
| | 30 | 9.840919 | 22 | 9.983194 | 42 | 0.016806 | 9.857726 | 21 | 30 | |
| | 40 | 9.840941 | 22 | 9.983236 | 42 | 0.016764 | 9.857705 | 20 | 20 | |
| | 50 | 9.840963 | 22 | 9.983278 | 42 | 0.016722 | 9.857685 | 20 | 10 | |
| 54 | 0 | 9.840985 | 22 | 9.983320 | 42 | 0.016680 | 9.857665 | 20 | 0 | 6 |
| | 10 | 9.841007 | 22 | 9.983362 | 42 | 0.016638 | 9.857645 | 21 | 50 | |
| | 20 | 9.841029 | 22 | 9.983404 | 42 | 0.016596 | 9.857624 | 20 | 40 | |
| | 30 | 9.841051 | 21 | 9.983447 | 43 | 0.016553 | 9.857604 | 20 | 30 | |
| | 40 | 9.841072 | 22 | 9.983489 | 42 | 0.016511 | 9.857584 | 21 | 20 | |
| | 50 | 9.841094 | 22 | 9.983531 | 42 | 0.016469 | 9.857563 | 20 | 10 | |
| 55 | 0 | 9.841116 | 22 | 9.983573 | 42 | 0.016427 | 9.857543 | 20 | 0 | 5 |
| | 10 | 9.841138 | 22 | 9.983615 | 42 | 0.016385 | 9.857523 | 20 | 50 | |
| | 20 | 9.841160 | 22 | 9.983657 | 42 | 0.016343 | 9.857503 | 21 | 40 | |
| | 30 | 9.841182 | 22 | 9.983699 | 42 | 0.016301 | 9.857482 | 21 | 30 | |
| | 40 | 9.841204 | 22 | 9.983742 | 43 | 0.016258 | 9.857462 | 20 | 20 | |
| | 50 | 9.841226 | 22 | 9.983784 | 42 | 0.016216 | 9.857442 | 20 | 10 | |
| 56 | 0 | 9.841247 | 21 | 9.983826 | 42 | 0.016174 | 9.857422 | 20 | 0 | 4 |
| | 10 | 9.841269 | 22 | 9.983868 | 42 | 0.016132 | 9.857401 | 21 | 50 | |
| | 20 | 9.841291 | 22 | 9.983910 | 42 | 0.016090 | 9.857381 | 20 | 40 | |
| | 30 | 9.841313 | 22 | 9.983952 | 42 | 0.016048 | 9.857361 | 20 | 30 | |
| | 40 | 9.841335 | 22 | 9.983994 | 42 | 0.016006 | 9.857340 | 21 | 20 | |
| | 50 | 9.841357 | 22 | 9.984037 | 43 | 0.015963 | 9.857320 | 20 | 10 | |
| 57 | 0 | 9.841378 | 21 | 9.984079 | 42 | 0.015921 | 9.857300 | 20 | 0 | 3 |
| | 10 | 9.841400 | 22 | 9.984121 | 42 | 0.015879 | 9.857279 | 21 | 50 | |
| | 20 | 9.841422 | 22 | 9.984163 | 42 | 0.015837 | 9.857259 | 20 | 40 | |
| | 30 | 9.841444 | 22 | 9.984205 | 42 | 0.015795 | 9.857239 | 20 | 30 | |
| | 40 | 9.841466 | 22 | 9.984247 | 42 | 0.015753 | 9.857219 | 20 | 20 | |
| | 50 | 9.841488 | 22 | 9.984289 | 42 | 0.015711 | 9.857198 | 21 | 10 | |
| 58 | 0 | 9.841509 | 21 | 9.984332 | 43 | 0.015668 | 9.857178 | 20 | 0 | 2 |
| | 10 | 9.841531 | 22 | 9.984374 | 42 | 0.015626 | 9.857158 | 20 | 50 | |
| | 20 | 9.841553 | 22 | 9.984416 | 42 | 0.015584 | 9.857137 | 21 | 40 | |
| | 30 | 9.841575 | 22 | 9.984458 | 42 | 0.015542 | 9.857117 | 20 | 30 | |
| | 40 | 9.841597 | 22 | 9.984500 | 42 | 0.015500 | 9.857097 | 20 | 20 | |
| | 50 | 9.841619 | 22 | 9.984542 | 42 | 0.015458 | 9.857076 | 21 | 10 | |
| 59 | 0 | 9.841640 | 21 | 9.984584 | 42 | 0.015416 | 9.857056 | 20 | 0 | 1 |
| | 10 | 9.841662 | 22 | 9.984627 | 43 | 0.015373 | 9.857036 | 20 | 50 | |
| | 20 | 9.841684 | 22 | 9.984669 | 42 | 0.015331 | 9.857015 | 21 | 40 | |
| | 30 | 9.841706 | 22 | 9.984711 | 42 | 0.015289 | 9.856995 | 20 | 30 | |
| | 40 | 9.841728 | 22 | 9.984753 | 42 | 0.015247 | 9.856975 | 20 | 20 | |
| | 50 | 9.841749 | 21 | 9.984795 | 42 | 0.015205 | 9.856954 | 21 | 10 | |
| 60 | 0 | 9.841771 | 22 | 9.984837 | 42 | 0.015163 | 9.856934 | 20 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

43

1 4.3
2 8.6
3 12.9
4 17.2
5 21.5
6 25.8
7 30.1
8 34.4
9 38.7

42

1 4.2
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3 12.6
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5 21.0
6 25.2
7 29.4
8 33.6
9 37.8

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22

1 2.2
2 4.4
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5 11.0
6 13.2
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21

1 2.1
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1 2.0
2 4.0
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5 10.0
6 12.0
7 14.0
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9 18.0

| | | Sin | d. | Tang | d.c. | Cotg | Cos | d. | | | |
|--------|----|----------|----------|----------|----------|----------|----------|----------|----|----|----|
| 43 | 0 | 9.841771 | 22 | 9.984837 | 42 | 0.015163 | 9.856934 | 20 | 0 | 60 | |
| 1 4.3 | 10 | 9.841793 | 22 | 9.984879 | 42 | 0.015121 | 9.856914 | 21 | 50 | | |
| 2 8.6 | 20 | 9.841815 | 22 | 9.984921 | 42 | 0.015079 | 9.856893 | 21 | 40 | | |
| 3 12.9 | 30 | 9.841837 | 21 | 9.984964 | 43 | 0.015036 | 9.856873 | 20 | 30 | | |
| 4 17.2 | 40 | 9.841858 | 22 | 9.985006 | 42 | 0.014994 | 9.856853 | 21 | 20 | | |
| 5 21.5 | 50 | 9.841880 | 22 | 9.985048 | 42 | 0.014952 | 9.856832 | 20 | 10 | | |
| 6 25.8 | 1 | 0 | 9.841902 | 22 | 9.985090 | 42 | 0.014910 | 9.856812 | 20 | 0 | 59 |
| 7 30.1 | 10 | 9.841924 | 22 | 9.985132 | 42 | 0.014868 | 9.856792 | 21 | 50 | | |
| 8 34.4 | 20 | 9.841946 | 21 | 9.985174 | 42 | 0.014826 | 9.856771 | 21 | 40 | | |
| 9 38.7 | 30 | 9.841967 | 22 | 9.985216 | 42 | 0.014784 | 9.856751 | 20 | 30 | | |
| | 40 | 9.841989 | 22 | 9.985259 | 43 | 0.014741 | 9.856731 | 20 | 20 | | |
| | 50 | 9.842011 | 22 | 9.985301 | 42 | 0.014699 | 9.856710 | 21 | 10 | | |
| 42 | 2 | 0 | 9.842033 | 22 | 9.985343 | 42 | 0.014657 | 9.856690 | 20 | 0 | 58 |
| 1 4.2 | 10 | 9.842055 | 21 | 9.985385 | 42 | 0.014615 | 9.856670 | 21 | 50 | | |
| 2 8.4 | 20 | 9.842076 | 22 | 9.985427 | 42 | 0.014573 | 9.856649 | 21 | 40 | | |
| 3 12.6 | 30 | 9.842098 | 22 | 9.985469 | 42 | 0.014531 | 9.856629 | 20 | 30 | | |
| 4 16.8 | 40 | 9.842120 | 22 | 9.985511 | 42 | 0.014489 | 9.856609 | 20 | 20 | | |
| 5 21.0 | 50 | 9.842142 | 21 | 9.985553 | 42 | 0.014447 | 9.856588 | 21 | 10 | | |
| 6 25.2 | 3 | 0 | 9.842163 | 22 | 9.985596 | 43 | 0.014404 | 9.856568 | 20 | 0 | 57 |
| 7 29.4 | 10 | 9.842185 | 22 | 9.985638 | 42 | 0.014362 | 9.856547 | 21 | 50 | | |
| 8 33.6 | 20 | 9.842207 | 22 | 9.985680 | 42 | 0.014320 | 9.856527 | 20 | 40 | | |
| 9 37.8 | 30 | 9.842229 | 21 | 9.985722 | 42 | 0.014278 | 9.856507 | 20 | 30 | | |
| | 40 | 9.842250 | 22 | 9.985764 | 42 | 0.014236 | 9.856486 | 21 | 20 | | |
| | 50 | 9.842272 | 22 | 9.985806 | 42 | 0.014194 | 9.856466 | 20 | 10 | | |
| * | 4 | 0 | 9.842294 | 22 | 9.985848 | 42 | 0.014152 | 9.856446 | 21 | 0 | 56 |
| | 10 | 9.842316 | 21 | 9.985891 | 43 | 0.014109 | 9.856425 | 21 | 50 | | |
| 22 | 20 | 9.842337 | 21 | 9.985933 | 42 | 0.014067 | 9.856405 | 20 | 40 | | |
| 1 2.2 | 30 | 9.842359 | 22 | 9.985975 | 42 | 0.014025 | 9.856384 | 21 | 30 | | |
| 2 4.4 | 40 | 9.842381 | 22 | 9.986017 | 42 | 0.013983 | 9.856364 | 20 | 20 | | |
| 3 6.6 | 50 | 9.842403 | 21 | 9.986059 | 42 | 0.013941 | 9.856344 | 21 | 10 | | |
| 4 8.8 | 5 | 0 | 9.842424 | 22 | 9.986101 | 42 | 0.013899 | 9.856323 | 20 | 0 | 55 |
| 5 11.0 | 10 | 9.842446 | 22 | 9.986143 | 42 | 0.013857 | 9.856303 | 21 | 50 | | |
| 6 13.2 | 20 | 9.842468 | 22 | 9.986185 | 42 | 0.013815 | 9.856282 | 20 | 40 | | |
| 7 15.4 | 30 | 9.842490 | 21 | 9.986228 | 43 | 0.013772 | 9.856262 | 20 | 30 | | |
| 8 17.6 | 40 | 9.842511 | 22 | 9.986270 | 42 | 0.013730 | 9.856242 | 20 | 20 | | |
| 9 19.8 | 50 | 9.842533 | 22 | 9.986312 | 42 | 0.013688 | 9.856221 | 21 | 10 | | |
| | 6 | 0 | 9.842555 | 22 | 9.986354 | 42 | 0.013646 | 9.856201 | 21 | 0 | 54 |
| 21 | 10 | 9.842577 | 22 | 9.986396 | 42 | 0.013604 | 9.856180 | 20 | 50 | | |
| 1 2.1 | 20 | 9.842598 | 21 | 9.986438 | 42 | 0.013562 | 9.856160 | 20 | 40 | | |
| 2 4.2 | 30 | 9.842620 | 22 | 9.986480 | 42 | 0.013520 | 9.856140 | 20 | 30 | | |
| 3 6.3 | 40 | 9.842642 | 22 | 9.986523 | 43 | 0.013477 | 9.856119 | 21 | 20 | | |
| 4 8.4 | 50 | 9.842663 | 21 | 9.986565 | 42 | 0.013435 | 9.856099 | 20 | 10 | | |
| 5 10.5 | 7 | 0 | 9.842685 | 22 | 9.986607 | 42 | 0.013393 | 9.856078 | 21 | 0 | 53 |
| 6 12.6 | 10 | 9.842707 | 22 | 9.986649 | 42 | 0.013351 | 9.856058 | 20 | 50 | | |
| 7 14.7 | 20 | 9.842729 | 22 | 9.986691 | 42 | 0.013309 | 9.856038 | 20 | 40 | | |
| 8 16.8 | 30 | 9.842750 | 21 | 9.986733 | 42 | 0.013267 | 9.856017 | 21 | 30 | | |
| 9 18.9 | 40 | 9.842772 | 22 | 9.986775 | 42 | 0.013225 | 9.855997 | 20 | 20 | | |
| | 50 | 9.842794 | 22 | 9.986817 | 42 | 0.013183 | 9.855976 | 21 | 10 | | |
| * | 8 | 0 | 9.842815 | 21 | 9.986860 | 43 | 0.013140 | 9.855956 | 20 | 0 | 52 |
| | 10 | 9.842837 | 22 | 9.986902 | 42 | 0.013098 | 9.855935 | 21 | 50 | | |
| | 20 | 9.842859 | 22 | 9.986944 | 42 | 0.013056 | 9.855915 | 20 | 40 | | |
| | 30 | 9.842880 | 21 | 9.986986 | 42 | 0.013014 | 9.855895 | 20 | 30 | | |
| | 40 | 9.842902 | 22 | 9.987028 | 42 | 0.012972 | 9.855874 | 21 | 20 | | |
| | 50 | 9.842924 | 22 | 9.987070 | 42 | 0.012930 | 9.855854 | 20 | 10 | | |
| | 9 | 0 | 9.842946 | 22 | 9.987112 | 42 | 0.012888 | 9.855833 | 21 | 0 | 51 |
| | 10 | 9.842967 | 21 | 9.987154 | 42 | 0.012846 | 9.855813 | 20 | 50 | | |
| 1 2.0 | 20 | 9.842989 | 22 | 9.987197 | 43 | 0.012803 | 9.855792 | 21 | 40 | | |
| 2 4.0 | 30 | 9.843011 | 22 | 9.987239 | 42 | 0.012761 | 9.855772 | 20 | 30 | | |
| 3 6.0 | 40 | 9.843032 | 21 | 9.987281 | 42 | 0.012719 | 9.855751 | 21 | 20 | | |
| 4 8.0 | 50 | 9.843054 | 22 | 9.987323 | 42 | 0.012677 | 9.855731 | 20 | 10 | | |
| 5 10.0 | 10 | 0 | 9.843076 | 22 | 9.987365 | 42 | 0.012635 | 9.855711 | 20 | 0 | 50 |
| 6 12.0 | | | | | | | | | | | |
| 7 14.0 | | | | | | | | | | | |
| 8 16.0 | | | | | | | | | | | |
| 9 18.0 | | | | | | | | | | | |
| | | Cos | d. | Cotg | d.c. | Tang | Sin | d. | | | |

| ' | " | Sin | d. | Tang | d. c | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 10 | 0 | 9.843076 | 21 | 9.987365 | 42 | 0.012635 | 9.855711 | 21 | 0 | 50 |
| | 10 | 9.843097 | 22 | 9.987407 | 42 | 0.012593 | 9.855690 | 20 | 50 | |
| | 20 | 9.843119 | 22 | 9.987449 | 42 | 0.012551 | 9.855670 | 21 | 40 | |
| | 30 | 9.843141 | 21 | 9.987491 | 43 | 0.012509 | 9.855649 | 20 | 30 | |
| | 40 | 9.843162 | 21 | 9.987534 | 42 | 0.012466 | 9.855629 | 20 | 20 | |
| | 50 | 9.843184 | 22 | 9.987576 | 42 | 0.012424 | 9.855608 | 21 | 10 | |
| 11 | 0 | 9.843206 | 21 | 9.987618 | 42 | 0.012382 | 9.855588 | 21 | 0 | 49 |
| | 10 | 9.843227 | 22 | 9.987660 | 42 | 0.012340 | 9.855567 | 20 | 50 | |
| | 20 | 9.843249 | 22 | 9.987702 | 42 | 0.012298 | 9.855547 | 20 | 40 | |
| | 30 | 9.843271 | 21 | 9.987744 | 42 | 0.012256 | 9.855526 | 21 | 30 | |
| | 40 | 9.843292 | 22 | 9.987786 | 42 | 0.012214 | 9.855506 | 20 | 20 | |
| | 50 | 9.843314 | 22 | 9.987829 | 43 | 0.012171 | 9.855485 | 21 | 10 | |
| 12 | 0 | 9.843336 | 21 | 9.987871 | 42 | 0.012129 | 9.855465 | 20 | 0 | 48 |
| | 10 | 9.843357 | 22 | 9.987913 | 42 | 0.012087 | 9.855445 | 20 | 50 | |
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| | 40 | 9.843682 | 21 | 9.988545 | 42 | 0.011455 | 9.855137 | 21 | 20 | |
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| | 50 | 9.844092 | 22 | 9.989345 | 42 | 0.010655 | 9.854747 | 20 | 10 | |
| 18 | 0 | 9.844114 | 21 | 9.989387 | 42 | 0.010613 | 9.854727 | 21 | 0 | 42 |
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| 19 | 0 | 9.844243 | 22 | 9.989640 | 42 | 0.010360 | 9.854603 | 21 | 0 | 41 |
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| | 50 | 9.844351 | 22 | 9.989850 | 42 | 0.010150 | 9.854500 | 20 | 10 | |
| 20 | 0 | 9.844372 | 21 | 9.989893 | 43 | 0.010107 | 9.854480 | 21 | 0 | 40 |

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| | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 20 | 0 | 9.844372 | 22 | 9.989893 | 42 | 0.010107 | 9.854480 | 21 | 0 | 40 |
| | 10 | 9.844394 | 22 | 9.989935 | 42 | 0.010065 | 9.854459 | 20 | 50 | |
| | 20 | 9.844416 | 21 | 9.989977 | 42 | 0.010023 | 9.854439 | 21 | 40 | |
| | 30 | 9.844437 | 22 | 9.990019 | 42 | 0.009981 | 9.854418 | 20 | 30 | |
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| | 50 | 9.844480 | 21 | 9.990103 | 42 | 0.009897 | 9.854377 | 21 | 10 | |
| 21 | 0 | 9.844502 | 22 | 9.990145 | 42 | 0.009855 | 9.854356 | 20 | 0 | 39 |
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| | 20 | 9.844545 | 22 | 9.990230 | 43 | 0.009770 | 9.854315 | 21 | 40 | |
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| 22 | 0 | 9.844631 | 21 | 9.990398 | 42 | 0.009602 | 9.854233 | 21 | 0 | 38 |
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| | 30 | 9.844696 | 21 | 9.990524 | 42 | 0.009476 | 9.854171 | 20 | 30 | |
| | 40 | 9.844717 | 22 | 9.990567 | 43 | 0.009433 | 9.854151 | 21 | 20 | |
| | 50 | 9.844739 | 21 | 9.990609 | 42 | 0.009391 | 9.854130 | 21 | 10 | |
| 23 | 0 | 9.844760 | 22 | 9.990651 | 42 | 0.009349 | 9.854109 | 20 | 0 | 37 |
| | 10 | 9.844782 | 21 | 9.990693 | 42 | 0.009307 | 9.854089 | 21 | 50 | |
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| | 40 | 9.844846 | 22 | 9.990819 | 42 | 0.009181 | 9.854027 | 21 | 20 | |
| | 50 | 9.844868 | 21 | 9.990861 | 42 | 0.009139 | 9.854006 | 20 | 10 | |
| 24 | 0 | 9.844889 | 22 | 9.990903 | 42 | 0.009097 | 9.853986 | 21 | 0 | 36 |
| | 10 | 9.844911 | 21 | 9.990946 | 43 | 0.009054 | 9.853965 | 21 | 50 | |
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| 25 | 0 | 9.845018 | 22 | 9.991156 | 42 | 0.008844 | 9.853862 | 21 | 0 | 35 |
| | 10 | 9.845040 | 21 | 9.991198 | 42 | 0.008802 | 9.853841 | 20 | 50 | |
| | 20 | 9.845061 | 22 | 9.991240 | 42 | 0.008760 | 9.853821 | 21 | 40 | |
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| 26 | 0 | 9.845147 | 21 | 9.991409 | 42 | 0.008591 | 9.853738 | 21 | 0 | 34 |
| | 10 | 9.845168 | 22 | 9.991451 | 42 | 0.008549 | 9.853717 | 21 | 50 | |
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| | 40 | 9.845233 | 21 | 9.991577 | 42 | 0.008423 | 9.853655 | 21 | 20 | |
| | 50 | 9.845254 | 22 | 9.991620 | 43 | 0.008380 | 9.853635 | 20 | 10 | |
| 27 | 0 | 9.845276 | 21 | 9.991662 | 42 | 0.008338 | 9.853614 | 21 | 0 | 33 |
| | 10 | 9.845297 | 22 | 9.991704 | 42 | 0.008296 | 9.853594 | 20 | 50 | |
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| 28 | 0 | 9.845405 | 22 | 9.991914 | 42 | 0.008086 | 9.853490 | 21 | 0 | 32 |
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| | 50 | 9.845512 | 22 | 9.992125 | 42 | 0.007875 | 9.853387 | 21 | 10 | |
| 29 | 0 | 9.845533 | 21 | 9.992167 | 42 | 0.007833 | 9.853366 | 21 | 0 | 31 |
| | 10 | 9.845555 | 22 | 9.992209 | 42 | 0.007791 | 9.853345 | 21 | 50 | |
| | 20 | 9.845576 | 21 | 9.992251 | 42 | 0.007749 | 9.853325 | 20 | 40 | |
| | 30 | 9.845598 | 22 | 9.992293 | 42 | 0.007707 | 9.853304 | 21 | 30 | |
| | 40 | 9.845619 | 21 | 9.992336 | 43 | 0.007664 | 9.853283 | 21 | 20 | |
| | 50 | 9.845640 | 21 | 9.992378 | 42 | 0.007622 | 9.853263 | 20 | 10 | |
| 30 | 0 | 9.845662 | 22 | 9.992420 | 42 | 0.007580 | 9.853242 | 21 | 0 | 30 |
| | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|----|
| 30 | 0 | 9.845662 | 21 | 9.992420 | 42 | 0.007580 | 9.853242 | 21 | 0 | 30 |
| | 10 | 9.845683 | 22 | 9.992462 | 42 | 0.007538 | 9.853221 | 20 | 50 | |
| | 20 | 9.845705 | 22 | 9.992504 | 42 | 0.007496 | 9.853201 | 21 | 40 | |
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| | 40 | 9.845747 | 22 | 9.992588 | 42 | 0.007412 | 9.853159 | 21 | 20 | |
| | 50 | 9.845769 | 21 | 9.992630 | 42 | 0.007370 | 9.853139 | 20 | 10 | |
| 31 | 0 | 9.845790 | 22 | 9.992672 | 42 | 0.007328 | 9.853118 | 21 | 0 | 29 |
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| 34 | 0 | 9.846175 | 22 | 9.993431 | 43 | 0.006569 | 9.852745 | 21 | 0 | 26 |
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| | 40 | 9.846389 | 21 | 9.993852 | 42 | 0.006148 | 9.852537 | 21 | 20 | |
| | 50 | 9.846410 | 21 | 9.993894 | 42 | 0.006106 | 9.852517 | 20 | 10 | |
| 36 | 0 | 9.846432 | 22 | 9.993936 | 42 | 0.006064 | 9.852496 | 21 | 0 | 24 |
| | 10 | 9.846453 | 21 | 9.993978 | 42 | 0.006022 | 9.852475 | 21 | 50 | |
| | 20 | 9.846474 | 21 | 9.994020 | 42 | 0.005980 | 9.852454 | 21 | 40 | |
| | 30 | 9.846496 | 22 | 9.994062 | 42 | 0.005938 | 9.852434 | 20 | 30 | |
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| | 50 | 9.846539 | 22 | 9.994146 | 42 | 0.005854 | 9.852392 | 21 | 10 | |
| 37 | 0 | 9.846560 | 21 | 9.994189 | 43 | 0.005812 | 9.852371 | 21 | 0 | 23 |
| | 10 | 9.846581 | 21 | 9.994231 | 42 | 0.005770 | 9.852350 | 21 | 50 | |
| | 20 | 9.846603 | 22 | 9.994273 | 42 | 0.005727 | 9.852330 | 20 | 40 | |
| | 30 | 9.846624 | 21 | 9.994315 | 42 | 0.005685 | 9.852309 | 21 | 30 | |
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| | 50 | 9.846667 | 22 | 9.994399 | 42 | 0.005601 | 9.852267 | 21 | 10 | |
| 38 | 0 | 9.846688 | 21 | 9.994441 | 42 | 0.005559 | 9.852247 | 21 | 0 | 22 |
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| | 50 | 9.846794 | 21 | 9.994652 | 42 | 0.005348 | 9.852143 | 20 | 10 | |
| 39 | 0 | 9.846816 | 22 | 9.994694 | 42 | 0.005306 | 9.852122 | 21 | 0 | 21 |
| | 10 | 9.846837 | 21 | 9.994736 | 42 | 0.005264 | 9.852101 | 21 | 50 | |
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| | 40 | 9.846901 | 21 | 9.994862 | 42 | 0.005138 | 9.852039 | 20 | 20 | |
| | 50 | 9.846922 | 21 | 9.994905 | 43 | 0.005095 | 9.852018 | 21 | 10 | |
| 40 | 0 | 9.846944 | 22 | 9.994947 | 42 | 0.005053 | 9.851997 | 21 | 0 | 20 |

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| | ' | " | Sin | d. | Tang | d. c. | Cotg | Cos | d. | " | ' |
|--------|----|----|----------|----|----------|-------|----------|----------|----|----|----|
| 43 | 40 | 0 | 9.846944 | 21 | 9.994947 | 42 | 0.005053 | 9.851997 | 21 | 0 | 20 |
| 1 4.3 | | 10 | 9.846965 | 21 | 9.994989 | 42 | 0.005011 | 9.851976 | 21 | 50 | |
| 2 8.6 | | 20 | 9.846986 | 22 | 9.995031 | 42 | 0.004969 | 9.851955 | 20 | 40 | |
| 3 12.9 | | 30 | 9.847008 | 22 | 9.995073 | 42 | 0.004927 | 9.851935 | 20 | 30 | |
| 4 17.2 | | 40 | 9.847029 | 21 | 9.995115 | 42 | 0.004885 | 9.851914 | 21 | 20 | |
| 5 21.5 | | 50 | 9.847050 | 21 | 9.995157 | 42 | 0.004843 | 9.851893 | 21 | 10 | |
| 6 25.8 | 41 | 0 | 9.847071 | 22 | 9.995199 | 42 | 0.004801 | 9.851872 | 21 | 0 | 19 |
| 7 30.1 | | 10 | 9.847093 | 21 | 9.995241 | 42 | 0.004759 | 9.851851 | 21 | 50 | |
| 8 34.4 | | 20 | 9.847114 | 21 | 9.995284 | 43 | 0.004716 | 9.851830 | 20 | 40 | |
| 9 38.7 | | 30 | 9.847135 | 22 | 9.995326 | 42 | 0.004674 | 9.851810 | 20 | 30 | |
| | | 40 | 9.847157 | 22 | 9.995368 | 42 | 0.004632 | 9.851789 | 21 | 20 | |
| | | 50 | 9.847178 | 21 | 9.995410 | 42 | 0.004590 | 9.851768 | 21 | 10 | |
| | 42 | 0 | 9.847199 | 21 | 9.995452 | 42 | 0.004548 | 9.851747 | 21 | 0 | 18 |
| 1 4.2 | | 10 | 9.847220 | 22 | 9.995494 | 42 | 0.004506 | 9.851726 | 21 | 50 | |
| 2 8.4 | | 20 | 9.847242 | 21 | 9.995536 | 42 | 0.004464 | 9.851705 | 20 | 40 | |
| 3 12.6 | | 30 | 9.847263 | 21 | 9.995578 | 42 | 0.004422 | 9.851685 | 20 | 30 | |
| 4 16.8 | | 40 | 9.847284 | 21 | 9.995620 | 42 | 0.004380 | 9.851664 | 21 | 20 | |
| 5 21.0 | | 50 | 9.847305 | 22 | 9.995663 | 43 | 0.004337 | 9.851643 | 21 | 10 | |
| 6 25.2 | 43 | 0 | 9.847327 | 22 | 9.995705 | 42 | 0.004295 | 9.851622 | 21 | 0 | 17 |
| 7 29.4 | | 10 | 9.847348 | 21 | 9.995747 | 42 | 0.004253 | 9.851601 | 21 | 50 | |
| 8 33.6 | | 20 | 9.847369 | 22 | 9.995789 | 42 | 0.004211 | 9.851580 | 21 | 40 | |
| 9 37.8 | | 30 | 9.847391 | 21 | 9.995831 | 42 | 0.004169 | 9.851559 | 20 | 30 | |
| | | 40 | 9.847412 | 21 | 9.995873 | 42 | 0.004127 | 9.851539 | 21 | 20 | |
| * | | 50 | 9.847433 | 21 | 9.995915 | 42 | 0.004085 | 9.851518 | 21 | 10 | |
| | 44 | 0 | 9.847454 | 22 | 9.995957 | 42 | 0.004043 | 9.851497 | 21 | 0 | 16 |
| | | 10 | 9.847476 | 22 | 9.995999 | 42 | 0.004001 | 9.851476 | 21 | 50 | |
| 1 2.2 | | 20 | 9.847497 | 21 | 9.996042 | 42 | 0.003958 | 9.851455 | 21 | 40 | |
| 2 4.4 | | 30 | 9.847518 | 21 | 9.996084 | 42 | 0.003916 | 9.851434 | 21 | 30 | |
| 3 6.6 | | 40 | 9.847539 | 21 | 9.996126 | 42 | 0.003874 | 9.851413 | 20 | 20 | |
| 4 8.8 | | 50 | 9.847561 | 22 | 9.996168 | 42 | 0.003832 | 9.851393 | 21 | 10 | |
| 5 11.0 | 45 | 0 | 9.847582 | 21 | 9.996210 | 42 | 0.003790 | 9.851372 | 21 | 0 | 15 |
| 6 13.2 | | 10 | 9.847603 | 21 | 9.996252 | 42 | 0.003748 | 9.851351 | 21 | 50 | |
| 7 15.4 | | 20 | 9.847624 | 21 | 9.996294 | 42 | 0.003706 | 9.851330 | 21 | 40 | |
| 8 17.6 | | 30 | 9.847645 | 22 | 9.996336 | 42 | 0.003664 | 9.851309 | 21 | 30 | |
| 9 19.8 | | 40 | 9.847667 | 21 | 9.996378 | 42 | 0.003622 | 9.851288 | 21 | 20 | |
| | | 50 | 9.847688 | 21 | 9.996421 | 43 | 0.003579 | 9.851267 | 21 | 10 | |
| | 46 | 0 | 9.847709 | 21 | 9.996463 | 42 | 0.003537 | 9.851246 | 20 | 0 | 14 |
| 1 2.1 | | 10 | 9.847730 | 21 | 9.996505 | 42 | 0.003495 | 9.851226 | 21 | 50 | |
| 2 4.2 | | 20 | 9.847752 | 22 | 9.996547 | 42 | 0.003453 | 9.851205 | 21 | 40 | |
| 3 6.3 | | 30 | 9.847773 | 21 | 9.996589 | 42 | 0.003411 | 9.851184 | 21 | 30 | |
| 4 8.4 | | 40 | 9.847794 | 21 | 9.996631 | 42 | 0.003369 | 9.851163 | 21 | 20 | |
| 5 10.5 | | 50 | 9.847815 | 21 | 9.996673 | 42 | 0.003327 | 9.851142 | 21 | 10 | |
| 6 12.6 | 47 | 0 | 9.847836 | 22 | 9.996715 | 42 | 0.003285 | 9.851121 | 21 | 0 | 13 |
| 7 14.7 | | 10 | 9.847858 | 21 | 9.996757 | 42 | 0.003243 | 9.851100 | 21 | 50 | |
| 8 16.8 | | 20 | 9.847879 | 21 | 9.996800 | 43 | 0.003200 | 9.851079 | 21 | 40 | |
| 9 18.9 | | 30 | 9.847900 | 21 | 9.996842 | 42 | 0.003158 | 9.851058 | 20 | 30 | |
| | | 40 | 9.847921 | 22 | 9.996884 | 42 | 0.003116 | 9.851038 | 20 | 20 | |
| | | 50 | 9.847943 | 22 | 9.996926 | 42 | 0.003074 | 9.851017 | 21 | 10 | |
| * | 48 | 0 | 9.847964 | 21 | 9.996968 | 42 | 0.003032 | 9.851000 | 21 | 0 | 12 |
| | | 10 | 9.847985 | 21 | 9.997010 | 42 | 0.002990 | 9.850979 | 21 | 50 | |
| 1 2.0 | | 20 | 9.848006 | 21 | 9.997052 | 42 | 0.002948 | 9.850958 | 21 | 40 | |
| 2 4.0 | | 30 | 9.848027 | 21 | 9.997094 | 42 | 0.002906 | 9.850937 | 21 | 30 | |
| 3 6.0 | | 40 | 9.848049 | 22 | 9.997136 | 42 | 0.002864 | 9.850917 | 21 | 20 | |
| 4 8.0 | | 50 | 9.848070 | 21 | 9.997179 | 43 | 0.002821 | 9.850896 | 21 | 10 | |
| 5 10.0 | 49 | 0 | 9.848091 | 21 | 9.997221 | 42 | 0.002779 | 9.850875 | 21 | 0 | 11 |
| 6 12.0 | | 10 | 9.848112 | 21 | 9.997263 | 42 | 0.002737 | 9.850854 | 21 | 50 | |
| 7 14.0 | | 20 | 9.848133 | 21 | 9.997305 | 42 | 0.002695 | 9.850833 | 21 | 40 | |
| 8 16.0 | | 30 | 9.848154 | 21 | 9.997347 | 42 | 0.002653 | 9.850812 | 21 | 30 | |
| 9 18.0 | | 40 | 9.848176 | 22 | 9.997389 | 42 | 0.002611 | 9.850791 | 20 | 20 | |
| | | 50 | 9.848197 | 21 | 9.997431 | 42 | 0.002569 | 9.850770 | 21 | 10 | |
| | 50 | 0 | 9.848218 | 21 | 9.997473 | 42 | 0.002527 | 9.850749 | 21 | 0 | 10 |
| | ' | " | Cos | d. | Cotg | d. c. | Tang | Sin | d. | " | ' |

| ' | " | Sin | d. | Tang | d.c. | Cotg | Cos | d. | " | ' |
|----|----|----------|----|----------|------|----------|----------|----|----|--------|
| 50 | 0 | 9.848218 | 21 | 9.997473 | 42 | 0.002557 | 9.850000 | 21 | 0 | 10 |
| | 10 | 9.848239 | 21 | 9.997515 | 43 | 0.002557 | 9.850000 | 21 | 50 | 43 |
| | 20 | 9.848260 | 22 | 9.997558 | 42 | 0.002442 | 9.850000 | 21 | 40 | 1 4.3 |
| | 30 | 9.848282 | 21 | 9.997600 | 42 | 0.002400 | 9.850082 | 21 | 30 | 2 8.6 |
| | 40 | 9.848303 | 21 | 9.997642 | 42 | 0.002358 | 9.850166 | 21 | 20 | 3 12.9 |
| | 50 | 9.848324 | 21 | 9.997684 | 42 | 0.002316 | 9.850250 | 21 | 10 | 4 17.2 |
| 51 | 0 | 9.848345 | 21 | 9.997726 | 42 | 0.002274 | 9.850319 | 21 | 0 | 5 21.5 |
| | 10 | 9.848366 | 21 | 9.997768 | 42 | 0.002232 | 9.850398 | 21 | 50 | 6 25.8 |
| | 20 | 9.848387 | 21 | 9.997810 | 42 | 0.002190 | 9.850477 | 21 | 40 | 7 30.1 |
| | 30 | 9.848409 | 21 | 9.997852 | 42 | 0.002148 | 9.850556 | 21 | 30 | 8 34.4 |
| | 40 | 9.848430 | 21 | 9.997894 | 43 | 0.002106 | 9.850635 | 21 | 20 | 9 38.7 |
| | 50 | 9.848451 | 21 | 9.997937 | 42 | 0.002063 | 9.850714 | 21 | 10 | |
| 52 | 0 | 9.848472 | 21 | 9.997979 | 42 | 0.002021 | 9.850793 | 21 | 0 | 8 |
| | 10 | 9.848493 | 21 | 9.998021 | 42 | 0.001979 | 9.850872 | 21 | 50 | 1 4.2 |
| | 20 | 9.848514 | 21 | 9.998063 | 42 | 0.001937 | 9.850951 | 21 | 40 | 2 8.4 |
| | 30 | 9.848535 | 22 | 9.998105 | 42 | 0.001895 | 9.851030 | 21 | 30 | 3 12.6 |
| | 40 | 9.848557 | 21 | 9.998147 | 42 | 0.001853 | 9.851109 | 21 | 20 | 4 16.8 |
| | 50 | 9.848578 | 21 | 9.998189 | 42 | 0.001811 | 9.851188 | 21 | 10 | 5 21.0 |
| 53 | 0 | 9.848599 | 21 | 9.998231 | 42 | 0.001769 | 9.851267 | 21 | 0 | 6 25.2 |
| | 10 | 9.848620 | 21 | 9.998273 | 43 | 0.001727 | 9.851346 | 21 | 50 | 7 29.4 |
| | 20 | 9.848641 | 21 | 9.998316 | 42 | 0.001684 | 9.851425 | 21 | 40 | 8 33.6 |
| | 30 | 9.848662 | 21 | 9.998358 | 42 | 0.001642 | 9.851504 | 21 | 30 | 9 37.8 |
| | 40 | 9.848683 | 22 | 9.998400 | 42 | 0.001600 | 9.851583 | 21 | 20 | |
| | 50 | 9.848705 | 21 | 9.998442 | 42 | 0.001558 | 9.851662 | 21 | 10 | * |
| 54 | 0 | 9.848726 | 21 | 9.998484 | 42 | 0.001516 | 9.851741 | 21 | 0 | 6 |
| | 10 | 9.848747 | 21 | 9.998526 | 42 | 0.001474 | 9.851820 | 21 | 50 | |
| | 20 | 9.848768 | 21 | 9.998568 | 42 | 0.001432 | 9.851899 | 21 | 40 | 1 2.2 |
| | 30 | 9.848789 | 21 | 9.998610 | 42 | 0.001390 | 9.851978 | 21 | 30 | 2 4.4 |
| | 40 | 9.848810 | 21 | 9.998652 | 42 | 0.001348 | 9.852057 | 21 | 20 | 3 6.6 |
| | 50 | 9.848831 | 21 | 9.998695 | 43 | 0.001305 | 9.852136 | 21 | 10 | 4 8.8 |
| 55 | 0 | 9.848852 | 22 | 9.998737 | 42 | 0.001263 | 9.852215 | 21 | 0 | 5 11.0 |
| | 10 | 9.848874 | 21 | 9.998779 | 42 | 0.001221 | 9.852294 | 21 | 50 | 6 13.2 |
| | 20 | 9.848895 | 21 | 9.998821 | 42 | 0.001179 | 9.852373 | 21 | 40 | 7 15.4 |
| | 30 | 9.848916 | 21 | 9.998863 | 42 | 0.001137 | 9.852452 | 21 | 30 | 8 17.6 |
| | 40 | 9.848937 | 21 | 9.998905 | 42 | 0.001095 | 9.852531 | 21 | 20 | 9 19.8 |
| | 50 | 9.848958 | 21 | 9.998947 | 42 | 0.001053 | 9.852610 | 21 | 10 | |
| 56 | 0 | 9.848979 | 21 | 9.998989 | 42 | 0.001011 | 9.852689 | 21 | 0 | 4 |
| | 10 | 9.849000 | 21 | 9.999031 | 42 | 0.000969 | 9.852768 | 21 | 50 | 1 2.1 |
| | 20 | 9.849021 | 21 | 9.999074 | 43 | 0.000926 | 9.852847 | 21 | 40 | 2 4.2 |
| | 30 | 9.849042 | 21 | 9.999116 | 42 | 0.000884 | 9.852926 | 21 | 30 | 3 6.3 |
| | 40 | 9.849063 | 21 | 9.999158 | 42 | 0.000842 | 9.853005 | 21 | 20 | 4 8.4 |
| | 50 | 9.849085 | 22 | 9.999200 | 42 | 0.000800 | 9.853084 | 21 | 10 | 5 10.5 |
| 57 | 0 | 9.849106 | 21 | 9.999242 | 42 | 0.000758 | 9.853163 | 21 | 0 | 6 12.6 |
| | 10 | 9.849127 | 21 | 9.999284 | 42 | 0.000716 | 9.853242 | 21 | 50 | 7 14.7 |
| | 20 | 9.849148 | 21 | 9.999326 | 42 | 0.000674 | 9.853321 | 21 | 40 | 8 16.8 |
| | 30 | 9.849169 | 21 | 9.999368 | 42 | 0.000632 | 9.853400 | 21 | 30 | 9 18.9 |
| | 40 | 9.849190 | 21 | 9.999410 | 42 | 0.000590 | 9.853479 | 21 | 20 | |
| | 50 | 9.849211 | 21 | 9.999453 | 43 | 0.000547 | 9.853558 | 21 | 10 | |
| 58 | 0 | 9.849232 | 21 | 9.999495 | 42 | 0.000505 | 9.853637 | 21 | 0 | 2 |
| | 10 | 9.849253 | 21 | 9.999537 | 42 | 0.000463 | 9.853716 | 21 | 50 | |
| | 20 | 9.849274 | 21 | 9.999579 | 42 | 0.000421 | 9.853795 | 21 | 40 | 1 2.0 |
| | 30 | 9.849295 | 21 | 9.999621 | 42 | 0.000379 | 9.853874 | 21 | 30 | 2 4.0 |
| | 40 | 9.849316 | 21 | 9.999663 | 42 | 0.000337 | 9.853953 | 21 | 20 | 3 6.0 |
| | 50 | 9.849338 | 22 | 9.999705 | 42 | 0.000295 | 9.854032 | 21 | 10 | 4 8.0 |
| 59 | 0 | 9.849359 | 21 | 9.999747 | 42 | 0.000253 | 9.854111 | 21 | 0 | 1 |
| | 10 | 9.849380 | 21 | 9.999789 | 42 | 0.000211 | 9.854190 | 21 | 50 | 5 10.0 |
| | 20 | 9.849401 | 21 | 9.999832 | 43 | 0.000168 | 9.854269 | 21 | 40 | 6 12.0 |
| | 30 | 9.849422 | 21 | 9.999874 | 42 | 0.000126 | 9.854348 | 21 | 30 | 7 14.0 |
| | 40 | 9.849443 | 21 | 9.999916 | 42 | 0.000084 | 9.854427 | 21 | 20 | 8 16.0 |
| | 50 | 9.849464 | 21 | 9.999958 | 42 | 0.000042 | 9.854506 | 21 | 10 | 9 18.0 |
| 60 | 0 | 9.849485 | 21 | 0.000000 | 42 | 0.000000 | 9.854585 | 21 | 0 | 0 |
| ' | " | Cos | d. | Cotg | d.c. | Tang | Sin | d. | " | ' |

| DEGREES. | | | | MINUTES. | | SECONDS. | | | |
|----------|-------------|-----|-------------|----------|-------------|----------|-------------|----|-------------|
| 0° | 0 000 000 0 | 60° | 1.047 197 6 | 120° | 2.094 395 1 | 0' | 0 000 000 0 | 0" | 0.000 000 0 |
| 1 | 0 017 453 3 | 61 | 1.064 650 8 | 121 | 2 111 848 4 | 1 | 0.000 290 9 | 1 | 0 000 004 8 |
| 2 | 0 034 906 6 | 62 | 1.082 104 1 | 122 | 2 129 301 7 | 2 | 0.000 581 8 | 2 | 0 000 009 7 |
| 3 | 0 052 359 9 | 63 | 1 099 557 4 | 123 | 2.146 755 0 | 3 | 0.000 872 7 | 3 | 0.000 014 5 |
| 4 | 0.069 813 2 | 64 | 1.117 010 7 | 124 | 2 164 208 3 | 4 | 0.001 163 6 | 4 | 0.000 019 4 |
| 5 | 0.087 266 5 | 65 | 1.134 464 0 | 125 | 2.181 661 6 | 5 | 0.001 454 4 | 5 | 0 000 024 2 |
| 6 | 0.104 719 8 | 66 | 1.151 917 3 | 126 | 2.199 114 9 | 6 | 0.001 745 3 | 6 | 0.000 029 1 |
| 7 | 0.122 173 0 | 67 | 1.169 370 6 | 127 | 2 216 568 2 | 7 | 0.002 036 2 | 7 | 0.000 033 9 |
| 8 | 0 139 626 3 | 68 | 1.186 823 9 | 128 | 2.234 021 4 | 8 | 0.002 327 1 | 8 | 0.000 038 8 |
| 9 | 0.157 079 6 | 69 | 1.204 277 2 | 129 | 2.251 474 7 | 9 | 0 002 618 0 | 9 | 0.000 043 6 |
| 10 | 0 174 532 9 | 70 | 1.221 730 5 | 130 | 2.268 928 0 | 10 | 0 002 908 9 | 10 | 0.000 048 5 |
| 11 | 0.191 986 2 | 71 | 1.239 183 8 | 131 | 2 286 381 3 | 11 | 0.003 199 8 | 11 | 0.000 053 3 |
| 12 | 0.209 439 5 | 72 | 1.256 637 1 | 132 | 2.303 834 6 | 12 | 0 003 490 7 | 12 | 0.000 058 2 |
| 13 | 0.226 892 8 | 73 | 1.274 090 4 | 133 | 2.321 287 9 | 13 | 0.003 781 5 | 13 | 0.000 063 0 |
| 14 | 0.244 346 1 | 74 | 1.291 543 6 | 134 | 2.338 741 2 | 14 | 0 004 072 4 | 14 | 0.000 067 9 |
| 15 | 0 261 799 4 | 75 | 1.308 996 9 | 135 | 2 356 194 5 | 15 | 0.004 363 3 | 15 | 0 000 072 7 |
| 16 | 0 279 252 7 | 76 | 1.326 450 2 | 136 | 2 373 647 8 | 16 | 0.004 654 2 | 16 | 0.000 077 6 |
| 17 | 0.296 706 0 | 77 | 1.343 903 5 | 137 | 2.391 101 1 | 17 | 0 004 945 1 | 17 | 0.000 082 4 |
| 18 | 0 314 159 3 | 78 | 1.361 356 8 | 138 | 2.408 554 4 | 18 | 0.005 236 0 | 18 | 0 000 087 3 |
| 19 | 0.331 612 6 | 79 | 1.378 810 1 | 139 | 2.426 007 7 | 19 | 0.005 526 9 | 19 | 0.000 092 1 |
| 20 | 0.349 065 9 | 80 | 1.396 263 4 | 140 | 2.443 461 0 | 20 | 0 005 817 8 | 20 | 0 000 097 0 |
| 21 | 0.366 519 1 | 81 | 1.413 716 7 | 141 | 2.460 914 2 | 21 | 0.006 108 7 | 21 | 0 000 101 8 |
| 22 | 0.383 972 4 | 82 | 1.431 170 0 | 142 | 2.478 367 5 | 22 | 0.006 399 5 | 22 | 0.000 106 7 |
| 23 | 0.401 425 7 | 83 | 1.448 623 3 | 143 | 2.495 820 8 | 23 | 0.006 690 4 | 23 | 0.000 111 5 |
| 24 | 0.418 879 0 | 84 | 1 466 076 6 | 144 | 2.513 274 1 | 24 | 0.006 981 3 | 24 | 0 000 116 4 |
| 25 | 0.436 332 3 | 85 | 1.483 529 9 | 145 | 2.530 727 4 | 25 | 0.007 272 2 | 25 | 0.000 121 2 |
| 26 | 0.453 785 6 | 86 | 1.500 983 2 | 146 | 2 548 180 7 | 26 | 0.007 563 1 | 26 | 0.000 126 1 |
| 27 | 0.471 238 9 | 87 | 1.518 436 4 | 147 | 2.565 634 0 | 27 | 0.007 854 0 | 27 | 0 000 130 9 |
| 28 | 0.488 692 2 | 88 | 1.535 889 7 | 148 | 2.583 087 3 | 28 | 0.008 144 9 | 28 | 0.000 135 7 |
| 29 | 0.506 145 5 | 89 | 1.553 343 0 | 149 | 2 600 540 6 | 29 | 0.008 435 8 | 29 | 0.000 140 6 |
| 30 | 0.523 598 8 | 90 | 1 570 796 3 | 150 | 2 617 993 9 | 30 | 0.008 726 6 | 30 | 0.000 145 4 |
| 31 | 0.541 052 1 | 91 | 1.588 249 6 | 151 | 2.635 447 2 | 31 | 0 009 017 5 | 31 | 0.000 150 3 |
| 32 | 0.558 505 4 | 92 | 1.605 702 9 | 152 | 2.652 900 5 | 32 | 0.009 308 4 | 32 | 0.000 155 1 |
| 33 | 0.575 958 7 | 93 | 1.623 156 2 | 153 | 2.670 353 8 | 33 | 0.009 599 3 | 33 | 0.000 160 0 |
| 34 | 0.593 411 9 | 94 | 1 640 609 5 | 154 | 2.687 807 0 | 34 | 0 009 890 2 | 34 | 0.000 164 8 |
| 35 | 0.610 865 2 | 95 | 1.658 062 8 | 155 | 2.705 260 3 | 35 | 0.010 181 1 | 35 | 0.000 169 7 |
| 36 | 0.628 318 5 | 96 | 1.675 516 1 | 156 | 2.722 713 6 | 36 | 0.010 472 0 | 36 | 0.000 174 5 |
| 37 | 0.645 771 8 | 97 | 1.692 969 4 | 157 | 2.740 166 9 | 37 | 0.010 762 9 | 37 | 0.000 179 4 |
| 38 | 0.663 225 1 | 98 | 1.710 422 7 | 158 | 2.757 620 2 | 38 | 0.011 053 8 | 38 | 0.000 184 2 |
| 39 | 0.680 678 4 | 99 | 1.727 876 0 | 159 | 2.775 073 5 | 39 | 0.011 344 6 | 39 | 0.000 189 1 |
| 40 | 0.698 131 7 | 100 | 1.745 329 3 | 160 | 2.792 526 8 | 40 | 0.011 635 5 | 40 | 0.000 193 9 |
| 41 | 0.715 585 0 | 101 | 1.762 782 5 | 161 | 2.809 980 1 | 41 | 0.011 926 4 | 41 | 0.000 198 8 |
| 42 | 0.733 038 3 | 102 | 1.780 235 8 | 162 | 2.827 433 4 | 42 | 0.012 217 3 | 42 | 0.000 203 6 |
| 43 | 0.750 491 6 | 103 | 1.797 689 1 | 163 | 2.844 886 7 | 43 | 0.012 508 2 | 43 | 0.000 208 5 |
| 44 | 0.767 944 9 | 104 | 1.815 142 4 | 164 | 2.862 340 0 | 44 | 0.012 799 1 | 44 | 0.000 213 3 |
| 45 | 0.785 398 2 | 105 | 1.832 595 7 | 165 | 2.879 793 3 | 45 | 0.013 090 0 | 45 | 0.000 218 2 |
| 46 | 0.802 851 5 | 106 | 1 850 049 0 | 166 | 2.897 246 6 | 46 | 0.013 380 9 | 46 | 0.000 223 0 |
| 47 | 0.820 304 7 | 107 | 1.867 502 3 | 167 | 2.914 699 9 | 47 | 0.013 671 7 | 47 | 0.000 227 9 |
| 48 | 0.837 758 0 | 108 | 1.884 955 6 | 168 | 2.932 153 1 | 48 | 0.013 962 6 | 48 | 0.000 232 7 |
| 49 | 0.855 211 3 | 109 | 1.902 408 9 | 169 | 2.949 606 4 | 49 | 0.014 253 5 | 49 | 0.000 237 6 |
| 50 | 0.872 664 6 | 110 | 1.919 862 2 | 170 | 2.967 059 7 | 50 | 0.014 544 4 | 50 | 0 000 242 4 |
| 51 | 0.890 117 9 | 111 | 1.937 315 5 | 171 | 2 984 513 0 | 51 | 0.014 835 3 | 51 | 0.000 247 3 |
| 52 | 0.907 571 2 | 112 | 1.954 768 8 | 172 | 3.001 966 3 | 52 | 0.015 126 2 | 52 | 0.000 252 1 |
| 53 | 0.925 024 5 | 113 | 1.972 222 1 | 173 | 3.019 419 6 | 53 | 0.015 417 1 | 53 | 0.000 257 0 |
| 54 | 0.942 477 8 | 114 | 1 989 675 3 | 174 | 3.036 872 9 | 54 | 0.015 708 0 | 54 | 0.000 261 8 |
| 55 | 0.959 931 1 | 115 | 2.007 128 6 | 175 | 3.054 326 2 | 55 | 0.015 998 9 | 55 | 0.000 266 6 |
| 56 | 0.977 384 4 | 116 | 2.024 581 9 | 176 | 3.071 779 5 | 56 | 0.016 289 7 | 56 | 0.000 271 5 |
| 57 | 0.994 837 7 | 117 | 2.042 035 2 | 177 | 3.089 232 8 | 57 | 0.016 580 6 | 57 | 0.000 276 3 |
| 58 | 1.012 291 0 | 118 | 2.059 488 5 | 178 | 3 106 686 1 | 58 | 0.016 871 5 | 58 | 0.000 281 2 |
| 59 | 1.029 744 3 | 119 | 2.076 941 8 | 179 | 3 124 139 4 | 59 | 0.017 162 4 | 59 | 0.000 286 0 |
| 60 | 1.047 197 6 | 120 | 2.094 395 1 | 180 | 3 141 592 7 | 60 | 0.017 453 3 | 60 | 0.000 290 9 |

TABLE IV.

GAUSS'S LOGARITHMS

FOR

ADDITION AND SUBTRACTION.

A.

GAUSS'S LOGARITHMS

FOR COMPUTING THE SUMS AND DIFFERENCES
OF NUMBERS WHOSE LOGARITHMS
ARE GIVEN.

If $\log a$ and $\log b$ are given, where $a > b$, and we want:

to obtain the sum $(a + b)$

or the difference $a - b$

we take $\log \frac{b}{a} = A$

$\log \frac{a}{b} = B$

$\log (a + b) = \log a + B$

$\log (a - b) = \log b + A$

Note. Up to page 565 we must subtract 10 from A.

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----|------|------|------|------|------|------|------|------|------|------|------|---|
| 4- | 0.00 | 0000 | 0001 | 0001 | 0001 | 0001 | 0001 | 0002 | 0002 | 0003 | 0003 | |
| 5.0 | | 0004 | 0004 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 3 4 5 6 7 103 04 05 06 07 200 08 10 12 14 309 12 15 18 21 412 16 20 24 28 515 20 25 30 35 618 24 30 36 42 721 28 35 42 49 824 32 40 48 56 927 36 45 54 63 |
| 5.1 | 0005 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0006 | 0007 | 0007 | 0007 | |
| 5.2 | 0007 | 0007 | 0007 | 0007 | 0008 | 0008 | 0008 | 0008 | 0008 | 0008 | 0008 | |
| 5.3 | 0009 | 0009 | 0009 | 0009 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0011 | |
| 5.4 | 0011 | 0011 | 0011 | 0012 | 0012 | 0012 | 0013 | 0013 | 0013 | 0013 | 0013 | |
| 5.5 | 0.00 | 0014 | 0014 | 0015 | 0015 | 0015 | 0016 | 0016 | 0017 | 0017 | 0017 | |
| 5.6 | | 0017 | 0018 | 0018 | 0019 | 0019 | 0020 | 0020 | 0021 | 0021 | 0021 | |
| 5.7 | 0022 | 0022 | 0022 | 0023 | 0024 | 0024 | 0025 | 0026 | 0026 | 0027 | 0027 | 8 9 10 11 12 108 09 10 11 12 216 18 20 22 24 324 27 30 33 36 432 36 40 44 48 540 45 50 55 60 648 54 60 66 72 756 63 70 77 84 864 72 80 88 96 972 81 90 99 108 |
| 5.8 | 0027 | 0028 | 0029 | 0029 | 0030 | 0031 | 0031 | 0032 | 0033 | 0034 | 0034 | |
| 5.9 | 0034 | 0035 | 0036 | 0037 | 0037 | 0040 | 0041 | 0041 | 0042 | 0042 | 0042 | |
| 6.0 | 0.00 | 0043 | 0044 | 0045 | 0047 | 0048 | 0049 | 0050 | 0051 | 0052 | 0053 | |
| 6.1 | | 0055 | 0056 | 0057 | 0059 | 0060 | 0061 | 0063 | 0064 | 0066 | 0067 | |
| 6.2 | 0069 | 0070 | 0072 | 0074 | 0075 | 0077 | 0079 | 0081 | 0083 | 0085 | 0087 | |
| 6.3 | 0087 | 0089 | 0091 | 0093 | 0095 | 0097 | 0099 | 0102 | 0104 | 0107 | 0109 | |
| 6.4 | 0109 | 0112 | 0114 | 0117 | 0120 | 0122 | 0125 | 0128 | 0131 | 0134 | 0137 | |
| 6.5 | 0.00 | 0137 | 0141 | 0144 | 0147 | 0151 | 0154 | 0158 | 0161 | 0165 | 0169 | |
| 6.6 | | 0173 | 0177 | 0181 | 0185 | 0190 | 0194 | 0198 | 0203 | 0208 | 0213 | 13 14 15 16 113 14 15 16 17 226 28 30 32 34 339 42 45 48 51 452 56 60 64 68 565 70 75 80 84 678 84 90 96 102 791 98 105 112 119 904 104 112 120 128 1017 117 126 135 144 |
| 6.7 | 0218 | 0223 | 0228 | 0233 | 0239 | 0244 | 0250 | 0256 | 0262 | 0268 | 0273 | |
| 6.8 | 0274 | 0280 | 0287 | 0294 | 0300 | 0307 | 0315 | 0322 | 0329 | 0337 | 0344 | |
| 6.9 | 0345 | 0353 | 0361 | 0369 | 0378 | 0387 | 0396 | 0405 | 0415 | 0424 | 0434 | |
| 7.0 | 0.00 | 0434 | 0444 | 0455 | 0465 | 0476 | 0487 | 0498 | 0510 | 0522 | 0534 | |
| 7.1 | | 0546 | 0559 | 0572 | 0585 | 0599 | 0613 | 0627 | 0642 | 0657 | 0672 | |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|---|---|---|---|---|-----------------------------|---|---|---|---|---|-----|
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 7.20 | 0.00 | 0688 | 0689 | 0691 | 0693 | 0694 | 0696 | 0697 | 0699 | 0701 | 0702 | |
| 21 | | 0704 | 0705 | 0707 | 0709 | 0710 | 0712 | 0714 | 0715 | 0717 | 0718 | |
| 22 | | 0720 | 0722 | 0723 | 0725 | 0727 | 0728 | 0730 | 0732 | 0734 | 0735 | |
| 23 | | 0737 | 0739 | 0740 | 0742 | 0744 | 0745 | 0747 | 0749 | 0751 | 0753 | |
| 24 | | 0754 | 0756 | 0758 | 0759 | 0761 | 0763 | 0765 | 0766 | 0768 | 0770 | 3 |
| 25 | | 0772 | 0773 | 0775 | 0777 | 0779 | 0781 | 0782 | 0784 | 0786 | 0788 | 10.3 |
| 26 | | 0790 | 0791 | 0793 | 0795 | 0797 | 0799 | 0801 | 0802 | 0804 | 0806 | 20.6 |
| 27 | | 0808 | 0810 | 0812 | 0814 | 0815 | 0817 | 0819 | 0821 | 0823 | 0825 | 30.9 |
| 28 | | 0827 | 0829 | 0831 | 0832 | 0834 | 0836 | 0838 | 0840 | 0842 | 0844 | 41.2 |
| 29 | | 0846 | 0848 | 0850 | 0852 | 0854 | 0856 | 0858 | 0860 | 0862 | 0864 | 51.5 |
| 7.30 | 0.00 | 0866 | 0868 | 0870 | 0872 | 0874 | 0876 | 0878 | 0880 | 0882 | 0884 | 61.8 |
| 31 | | 0886 | 0888 | 0890 | 0892 | 0894 | 0896 | 0898 | 0900 | 0902 | 0904 | 72.1 |
| 32 | | 0906 | 0909 | 0911 | 0913 | 0915 | 0917 | 0919 | 0921 | 0923 | 0925 | 82.4 |
| 33 | | 0928 | 0930 | 0932 | 0934 | 0936 | 0938 | 0940 | 0943 | 0945 | 0947 | 92.7 |
| 34 | | 0949 | 0951 | 0953 | 0956 | 0958 | 0960 | 0962 | 0964 | 0967 | 0969 | |
| 35 | | 0971 | 0973 | 0976 | 0978 | 0980 | 0982 | 0985 | 0987 | 0989 | 0991 | |
| 36 | | 0994 | 0996 | 0998 | 1001 | 1003 | 1005 | 1008 | 1010 | 1012 | 1015 | 4 |
| 37 | | 1017 | 1019 | 1022 | 1024 | 1026 | 1029 | 1031 | 1033 | 1036 | 1038 | 10.4 |
| 38 | | 1041 | 1043 | 1045 | 1048 | 1050 | 1053 | 1055 | 1057 | 1060 | 1062 | 20.8 |
| 39 | | 1065 | 1067 | 1070 | 1072 | 1075 | 1077 | 1080 | 1082 | 1085 | 1087 | 31.2 |
| 7.40 | 0.00 | 1090 | 1092 | 1095 | 1097 | 1100 | 1102 | 1105 | 1107 | 1110 | 1112 | 41.6 |
| 41 | | 1115 | 1117 | 1120 | 1123 | 1125 | 1128 | 1130 | 1133 | 1136 | 1138 | 52.0 |
| 42 | | 1141 | 1143 | 1146 | 1149 | 1151 | 1154 | 1157 | 1159 | 1162 | 1165 | 62.4 |
| 43 | | 1167 | 1170 | 1173 | 1175 | 1178 | 1181 | 1184 | 1186 | 1189 | 1192 | 72.8 |
| 44 | | 1195 | 1197 | 1200 | 1203 | 1206 | 1208 | 1211 | 1214 | 1217 | 1219 | 83.2 |
| 45 | | 1222 | 1225 | 1228 | 1231 | 1234 | 1236 | 1239 | 1242 | 1245 | 1248 | 93.6 |
| 46 | | 1251 | 1254 | 1256 | 1259 | 1262 | 1265 | 1268 | 1271 | 1274 | 1277 | |
| 47 | | 1280 | 1283 | 1286 | 1289 | 1292 | 1295 | 1298 | 1301 | 1304 | 1307 | 5 |
| 48 | | 1310 | 1313 | 1316 | 1319 | 1322 | 1325 | 1328 | 1331 | 1334 | 1337 | 10.5 |
| 49 | | 1340 | 1343 | 1346 | 1349 | 1352 | 1356 | 1359 | 1362 | 1365 | 1368 | 21.0 |
| 7.50 | 0.00 | 1371 | 1374 | 1378 | 1381 | 1384 | 1387 | 1390 | 1393 | 1397 | 1400 | 31.5 |
| 51 | | 1403 | 1406 | 1410 | 1413 | 1416 | 1419 | 1423 | 1426 | 1429 | 1432 | 42.0 |
| 52 | | 1436 | 1439 | 1442 | 1446 | 1449 | 1452 | 1456 | 1459 | 1462 | 1466 | 52.5 |
| 53 | | 1469 | 1472 | 1476 | 1479 | 1483 | 1486 | 1489 | 1493 | 1496 | 1500 | 63.0 |
| 54 | | 1503 | 1507 | 1510 | 1514 | 1517 | 1521 | 1524 | 1528 | 1531 | 1535 | 73.5 |
| 55 | | 1538 | 1542 | 1545 | 1549 | 1552 | 1556 | 1560 | 1563 | 1567 | 1570 | 84.0 |
| 56 | | 1574 | 1578 | 1581 | 1585 | 1589 | 1592 | 1596 | 1600 | 1603 | 1607 | 94.5 |
| 57 | | 1611 | 1614 | 1618 | 1622 | 1625 | 1629 | 1633 | 1637 | 1640 | 1644 | |
| 58 | | 1648 | 1652 | 1656 | 1659 | 1663 | 1667 | 1671 | 1675 | 1679 | 1682 | 6 |
| 59 | | 1686 | 1690 | 1694 | 1698 | 1702 | 1706 | 1710 | 1714 | 1718 | 1722 | 10.6 |
| 7.60 | 0.00 | 1726 | 1729 | 1733 | 1737 | 1741 | 1745 | 1749 | 1754 | 1758 | 1762 | 21.2 |
| 61 | | 1765 | 1769 | 1773 | 1777 | 1781 | 1785 | 1789 | 1793 | 1797 | 1801 | 31.8 |
| 62 | | 1807 | 1811 | 1815 | 1819 | 1823 | 1828 | 1832 | 1836 | 1840 | 1844 | 42.4 |
| 63 | | 1849 | 1853 | 1857 | 1861 | 1866 | 1870 | 1874 | 1879 | 1883 | 1887 | 53.0 |
| 64 | | 1892 | 1896 | 1900 | 1905 | 1909 | 1913 | 1918 | 1922 | 1927 | 1931 | 63.6 |
| 65 | | 1936 | 1940 | 1945 | 1949 | 1953 | 1958 | 1962 | 1967 | 1972 | 1976 | 74.2 |
| 66 | | 1981 | 1985 | 1990 | 1994 | 1999 | 2003 | 2008 | 2013 | 2017 | 2022 | 84.8 |
| 67 | | 2027 | 2031 | 2036 | 2041 | 2045 | 2050 | 2055 | 2059 | 2064 | 2069 | 95.4 |
| 68 | | 2074 | 2078 | 2083 | 2088 | 2093 | 2098 | 2102 | 2107 | 2112 | 2117 | |
| 69 | | 2122 | 2127 | 2132 | 2137 | 2141 | 2146 | 2151 | 2156 | 2161 | 2166 | |
| 7.70 | 0.00 | 2171 | 2176 | 2181 | 2186 | 2191 | 2196 | 2201 | 2206 | 2211 | 2217 | |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | -PP. |
|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 7.70 | 0.00 | 2171 | 2176 | 2181 | 2186 | 2191 | 2196 | 2201 | 2206 | 2211 | 2217 | |
| 71 | 2222 | 2227 | 2232 | 2237 | 2242 | 2247 | 2252 | 2258 | 2263 | 2268 | | |
| 72 | 2273 | 2278 | 2283 | 2289 | 2294 | 2300 | 2305 | 2310 | 2315 | 2321 | | |
| 73 | 2326 | 2331 | 2337 | 2342 | 2348 | 2353 | 2358 | 2364 | 2369 | 2375 | | 5 6 7 8 9 105 06 07 08 09 210 12 14 16 18 315 18 21 24 27 420 24 28 32 36 525 30 35 40 45 630 36 42 48 54 735 42 49 56 63 840 48 56 64 72 945 54 63 72 81 |
| 74 | 2380 | 2386 | 2391 | 2397 | 2402 | 2408 | 2413 | 2419 | 2424 | 2430 | | |
| 75 | 2435 | 2441 | 2447 | 2452 | 2458 | 2463 | 2469 | 2475 | 2481 | 2486 | | |
| 76 | 2492 | 2498 | 2503 | 2509 | 2515 | 2521 | 2527 | 2532 | 2538 | 2544 | | |
| 77 | 2550 | 2556 | 2562 | 2567 | 2573 | 2579 | 2585 | 2591 | 2597 | 2603 | | |
| 78 | 2609 | 2615 | 2621 | 2627 | 2633 | 2639 | 2645 | 2651 | 2657 | 2663 | | |
| 79 | 2670 | 2676 | 2682 | 2688 | 2694 | 2700 | 2707 | 2713 | 2719 | 2725 | | |
| 7.80 | 0.00 | 2732 | 2738 | 2744 | 2750 | 2757 | 2763 | 2769 | 2776 | 2782 | 2789 | |
| 81 | 2795 | 2801 | 2808 | 2814 | 2821 | 2827 | 2834 | 2840 | 2847 | 2853 | | 10 11 12 13 110 11 12 13 220 22 24 26 330 33 36 39 440 44 48 52 550 55 60 65 660 66 72 78 770 77 84 91 880 88 96 104 990 99 108 117 |
| 82 | 2860 | 2866 | 2873 | 2880 | 2886 | 2893 | 2900 | 2906 | 2913 | 2920 | | |
| 83 | 2926 | 2933 | 2940 | 2947 | 2953 | 2960 | 2967 | 2974 | 2981 | 2987 | | |
| 84 | 2994 | 3001 | 3008 | 3015 | 3022 | 3029 | 3036 | 3043 | 3050 | 3057 | | |
| 85 | 3064 | 3071 | 3078 | 3085 | 3092 | 3099 | 3106 | 3113 | 3120 | 3128 | | |
| 86 | 3135 | 3142 | 3149 | 3156 | 3164 | 3171 | 3178 | 3186 | 3193 | 3200 | | |
| 87 | 3208 | 3215 | 3222 | 3230 | 3237 | 3245 | 3252 | 3260 | 3267 | 3275 | | |
| 88 | 3282 | 3290 | 3297 | 3305 | 3312 | 3320 | 3328 | 3335 | 3343 | 3350 | | |
| 89 | 3358 | 3366 | 3374 | 3381 | 3389 | 3397 | 3405 | 3413 | 3420 | 3428 | | 14 15 16 1 14 15 16 2 28 30 32 3 42 45 48 4 56 60 64 5 68 73 78 6 84 90 96 7 98 105 112 8 112 120 128 9 126 135 144 |
| 7.90 | 0.00 | 3436 | 3444 | 3452 | 3460 | 3468 | 3476 | 3484 | 3492 | 3500 | 3508 | |
| 91 | 3516 | 3524 | 3532 | 3540 | 3548 | 3556 | 3565 | 3573 | 3581 | 3589 | | |
| 92 | 3597 | 3606 | 3614 | 3622 | 3631 | 3639 | 3647 | 3656 | 3664 | 3672 | | |
| 93 | 3681 | 3689 | 3698 | 3706 | 3715 | 3723 | 3732 | 3740 | 3749 | 3758 | | |
| 94 | 3766 | 3775 | 3783 | 3792 | 3801 | 3810 | 3818 | 3827 | 3836 | 3845 | | |
| 95 | 3854 | 3862 | 3871 | 3880 | 3889 | 3898 | 3907 | 3916 | 3925 | 3934 | | |
| 96 | 3943 | 3952 | 3961 | 3970 | 3979 | 3988 | 3997 | 4007 | 4016 | 4025 | | |
| 97 | 4034 | 4044 | 4053 | 4062 | 4071 | 4081 | 4090 | 4100 | 4109 | 4118 | | |
| 98 | 4128 | 4137 | 4147 | 4156 | 4166 | 4175 | 4185 | 4195 | 4204 | 4214 | | |
| 99 | 4223 | 4233 | 4243 | 4253 | 4262 | 4272 | 4282 | 4292 | 4302 | 4311 | | |
| 8.00 | 0.00 | 4321 | 4331 | 4341 | 4351 | 4361 | 4371 | 4381 | 4391 | 4401 | 4411 | |
| 01 | 4422 | 4432 | 4442 | 4452 | 4462 | 4472 | 4483 | 4493 | 4503 | 4514 | | |
| 02 | 4524 | 4534 | 4545 | 4556 | 4566 | 4576 | 4587 | 4597 | 4608 | 4618 | | |
| 03 | 4629 | 4639 | 4650 | 4661 | 4671 | 4682 | 4693 | 4704 | 4714 | 4725 | | |
| 04 | 4736 | 4747 | 4758 | 4769 | 4780 | 4791 | 4802 | 4813 | 4824 | 4835 | | |
| 05 | 4846 | 4857 | 4868 | 4879 | 4890 | 4902 | 4913 | 4924 | 4935 | 4947 | | |
| 06 | 4958 | 4969 | 4981 | 4992 | 5004 | 5015 | 5027 | 5038 | 5050 | 5061 | | |
| 07 | 5073 | 5084 | 5096 | 5108 | 5119 | 5131 | 5143 | 5155 | 5167 | 5178 | | |
| 08 | 5190 | 5202 | 5214 | 5226 | 5238 | 5250 | 5262 | 5274 | 5286 | 5298 | | |
| 09 | 5310 | 5323 | 5335 | 5347 | 5359 | 5372 | 5384 | 5396 | 5409 | 5421 | | |
| 8.10 | 0.00 | 5433 | 5446 | 5458 | 5471 | 5483 | 5496 | 5508 | 5521 | 5534 | 5546 | |
| 11 | 5559 | 5572 | 5585 | 5597 | 5610 | 5623 | 5636 | 5649 | 5662 | 5675 | | |
| 12 | 5688 | 5701 | 5714 | 5727 | 5740 | 5753 | 5766 | 5780 | 5793 | 5806 | | |
| 13 | 5819 | 5833 | 5846 | 5859 | 5873 | 5886 | 5900 | 5913 | 5927 | 5940 | | |
| 14 | 5954 | 5968 | 5981 | 5995 | 6009 | 6022 | 6036 | 6050 | 6064 | 6078 | | |
| 15 | 6092 | 6106 | 6120 | 6134 | 6148 | 6162 | 6176 | 6190 | 6204 | 6218 | | |
| 16 | 6233 | 6247 | 6261 | 6275 | 6290 | 6304 | 6319 | 6333 | 6348 | 6362 | | |
| 17 | 6377 | 6391 | 6406 | 6421 | 6435 | 6450 | 6465 | 6479 | 6494 | 6509 | | |
| 18 | 6524 | 6539 | 6554 | 6568 | 6584 | 6599 | 6614 | 6629 | 6644 | 6660 | | |
| 19 | 6675 | 6690 | 6705 | 6721 | 6736 | 6752 | 6767 | 6782 | 6798 | 6814 | | |
| 8.20 | 0.00 | 6829 | 6845 | 6860 | 6876 | 6892 | 6908 | 6923 | 6939 | 6955 | 6971 | |

A B 0 1 2 3 4 5 6 7 8 9 PP.

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 8.20 | 0.00 | 6829 | 6845 | 6860 | 6876 | 6892 | 6908 | 6923 | 6939 | 6955 | 6971 | |
| 21 | | 6987 | 7003 | 7019 | 7035 | 7051 | 7067 | 7083 | 7100 | 7116 | 7132 | |
| 22 | | 7148 | 7165 | 7181 | 7197 | 7214 | 7230 | 7247 | 7264 | 7280 | 7297 | 28 29 30 31 |
| 23 | | 7313 | 7330 | 7347 | 7364 | 7381 | 7397 | 7414 | 7431 | 7448 | 7465 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
| 24 | | 7482 | 7499 | 7517 | 7534 | 7551 | 7568 | 7586 | 7603 | 7620 | 7638 | |
| 25 | | 7655 | 7673 | 7690 | 7708 | 7725 | 7743 | 7761 | 7778 | 7796 | 7814 | |
| 26 | | 7832 | 7850 | 7868 | 7886 | 7904 | 7922 | 7940 | 7958 | 7976 | 7994 | |
| 27 | | 8013 | 8031 | 8049 | 8068 | 8086 | 8104 | 8123 | 8142 | 8160 | 8179 | |
| 28 | | 8197 | 8216 | 8235 | 8254 | 8273 | 8291 | 8310 | 8329 | 8348 | 8367 | |
| 29 | | 8387 | 8406 | 8425 | 8444 | 8463 | 8483 | 8502 | 8522 | 8541 | 8560 | |
| 8.30 | 0.00 | 8580 | 8600 | 8619 | 8639 | 8659 | 8678 | 8698 | 8718 | 8738 | 8758 | |
| 31 | | 8778 | 8798 | 8818 | 8838 | 8858 | 8878 | 8899 | 8919 | 8939 | 8960 | 32 33 34 |
| 32 | | 8980 | 9001 | 9021 | 9042 | 9063 | 9083 | 9104 | 9125 | 9145 | 9166 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
| 33 | | 9187 | 9208 | 9229 | 9250 | 9271 | 9292 | 9314 | 9335 | 9356 | 9378 | |
| 34 | | 9399 | 9420 | 9442 | 9463 | 9485 | 9507 | 9528 | 9550 | 9572 | 9594 | |
| 35 | | 9615 | 9637 | 9659 | 9681 | 9703 | 9726 | 9748 | 9770 | 9792 | 9814 | |
| 36 | 0.00 | 9837 | 9859 | 9882 | 9904 | 9927 | 9949 | 9972 | 9995 | 0018 | 0040 | |
| 37 | 0.01 | 0063 | 0086 | 0109 | 0132 | 0155 | 0179 | 0202 | 0225 | 0248 | 0272 | |
| 38 | | 0295 | 0318 | 0342 | 0366 | 0389 | 0413 | 0437 | 0460 | 0484 | 0508 | |
| 39 | | 0532 | 0556 | 0580 | 0604 | 0628 | 0652 | 0677 | 0701 | 0725 | 0750 | 35 36 37 38 |
| 8.40 | 0.01 | 0774 | 0799 | 0823 | 0848 | 0873 | 0897 | 0922 | 0947 | 0972 | 0997 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
| 41 | | 1022 | 1047 | 1072 | 1097 | 1123 | 1148 | 1173 | 1199 | 1224 | 1250 | |
| 42 | | 1275 | 1301 | 1327 | 1353 | 1378 | 1404 | 1430 | 1456 | 1482 | 1508 | |
| 43 | | 1535 | 1561 | 1587 | 1614 | 1640 | 1666 | 1693 | 1720 | 1746 | 1773 | |
| 44 | | 1800 | 1827 | 1853 | 1880 | 1907 | 1934 | 1962 | 1989 | 2016 | 2043 | |
| 45 | | 2071 | 2098 | 2126 | 2153 | 2181 | 2209 | 2236 | 2264 | 2292 | 2320 | |
| 46 | | 2348 | 2376 | 2404 | 2432 | 2461 | 2489 | 2517 | 2546 | 2574 | 2603 | |
| 47 | | 2631 | 2660 | 2689 | 2718 | 2747 | 2776 | 2805 | 2834 | 2863 | 2892 | 39 40 41 |
| 48 | | 2921 | 2951 | 2980 | 3010 | 3039 | 3069 | 3098 | 3128 | 3158 | 3188 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
| 49 | | 3218 | 3248 | 3278 | 3308 | 3338 | 3369 | 3399 | 3429 | 3460 | 3490 | |
| 8.50 | 0.01 | 3521 | 3552 | 3582 | 3613 | 3644 | 3675 | 3706 | 3737 | 3768 | 3800 | |
| 51 | | 3831 | 3862 | 3893 | 3925 | 3957 | 3989 | 4020 | 4052 | 4084 | 4116 | |
| 52 | | 4148 | 4180 | 4212 | 4244 | 4277 | 4309 | 4341 | 4374 | 4407 | 4439 | |
| 53 | | 4472 | 4505 | 4538 | 4571 | 4604 | 4637 | 4670 | 4703 | 4737 | 4770 | |
| 54 | | 4803 | 4837 | 4871 | 4904 | 4938 | 4972 | 5006 | 5040 | 5074 | 5108 | 42 43 44 45 |
| 55 | | 5142 | 5177 | 5211 | 5245 | 5280 | 5315 | 5349 | 5384 | 5419 | 5454 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
| 56 | | 5489 | 5524 | 5559 | 5594 | 5630 | 5665 | 5700 | 5736 | 5772 | 5807 | |
| 57 | | 5843 | 5879 | 5915 | 5951 | 5987 | 6023 | 6059 | 6096 | 6132 | 6169 | |
| 58 | | 6205 | 6242 | 6279 | 6316 | 6352 | 6389 | 6427 | 6464 | 6501 | 6538 | |
| 59 | | 6576 | 6613 | 6651 | 6688 | 6726 | 6764 | 6802 | 6840 | 6878 | 6916 | |
| 8.60 | 0.01 | 6954 | 6993 | 7031 | 7070 | 7108 | 7147 | 7186 | 7224 | 7263 | 7302 | |
| 61 | | 7341 | 7381 | 7420 | 7459 | 7499 | 7538 | 7578 | 7618 | 7657 | 7697 | |
| 62 | | 7737 | 7777 | 7817 | 7858 | 7898 | 7938 | 7979 | 8020 | 8060 | 8101 | |
| 63 | | 8142 | 8183 | 8224 | 8265 | 8306 | 8348 | 8389 | 8430 | 8472 | 8514 | 46 47 48 49 |
| 64 | | 8556 | 8597 | 8639 | 8681 | 8724 | 8766 | 8808 | 8851 | 8894 | 8936 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
| 65 | | 8978 | 9021 | 9064 | 9107 | 9150 | 9193 | 9237 | 9280 | 9324 | 9367 | |
| 66 | | 9411 | 9455 | 9498 | 9542 | 9586 | 9631 | 9675 | 9719 | 9764 | 9808 | |
| 67 | 0.01 | 9853 | 9897 | 9942 | 9987 | 0032 | 0077 | 0123 | 0168 | 0213 | 0259 | |
| 68 | 0.02 | 0305 | 0350 | 0396 | 0442 | 0488 | 0534 | 0580 | 0627 | 0673 | 0720 | |
| 69 | | 0766 | 0813 | 0860 | 0907 | 0954 | 1001 | 1048 | 1096 | 1143 | 1191 | |
| 8.70 | 0.02 | 1238 | 1286 | 1334 | 1382 | 1430 | 1478 | 1527 | 1575 | 1624 | 1672 | |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|---|---|---|---|---|-----------------------------|---|---|---|---|---|-----|
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|------|------|------|------|------|-----------------------------|------|------|------|------|------|-------|
| 8.700 | 0.02 | 1238 | 1243 | 1248 | 1253 | 1258 | 1262 | 1267 | 1272 | 1277 | 1281 | |
| 701 | | 1286 | 1291 | 1296 | 1301 | 1305 | 1310 | 1315 | 1320 | 1324 | 1329 | |
| 702 | | 1334 | 1339 | 1344 | 1348 | 1353 | 1358 | 1363 | 1368 | 1372 | 1377 | |
| 703 | | 1382 | 1387 | 1392 | 1396 | 1401 | 1406 | 1411 | 1416 | 1421 | 1425 | |
| 704 | | 1430 | 1435 | 1440 | 1445 | 1449 | 1454 | 1459 | 1464 | 1469 | 1474 | |
| 705 | | 1478 | 1483 | 1488 | 1493 | 1498 | 1502 | 1507 | 1512 | 1517 | 1522 | |
| 706 | | 1527 | 1531 | 1536 | 1541 | 1546 | 1551 | 1556 | 1561 | 1565 | 1570 | |
| 707 | | 1575 | 1580 | 1585 | 1590 | 1594 | 1599 | 1604 | 1609 | 1614 | 1619 | |
| 708 | | 1624 | 1628 | 1633 | 1638 | 1643 | 1648 | 1653 | 1658 | 1662 | 1667 | |
| 709 | | 1672 | 1677 | 1682 | 1687 | 1692 | 1697 | 1701 | 1706 | 1711 | 1716 | |
| 8.710 | 0.02 | 1721 | 1726 | 1731 | 1736 | 1740 | 1745 | 1750 | 1755 | 1760 | 1765 | 1 0.4 |
| 711 | | 1770 | 1775 | 1780 | 1784 | 1789 | 1794 | 1799 | 1804 | 1809 | 1814 | 2 0.8 |
| 712 | | 1819 | 1824 | 1829 | 1833 | 1838 | 1843 | 1848 | 1853 | 1858 | 1863 | 3 1.2 |
| 713 | | 1868 | 1873 | 1878 | 1883 | 1887 | 1892 | 1897 | 1902 | 1907 | 1912 | 4 1.6 |
| 714 | | 1917 | 1922 | 1927 | 1932 | 1937 | 1942 | 1946 | 1951 | 1956 | 1961 | 5 2.0 |
| 715 | | 1966 | 1971 | 1976 | 1981 | 1986 | 1991 | 1996 | 2001 | 2006 | 2011 | 6 2.4 |
| 716 | | 2016 | 2021 | 2025 | 2030 | 2035 | 2040 | 2045 | 2050 | 2055 | 2060 | 7 2.8 |
| 717 | | 2065 | 2070 | 2075 | 2080 | 2085 | 2090 | 2095 | 2100 | 2105 | 2110 | 8 3.2 |
| 718 | | 2115 | 2120 | 2125 | 2130 | 2135 | 2140 | 2145 | 2150 | 2155 | 2160 | 9 3.6 |
| 719 | | 2164 | 2169 | 2174 | 2179 | 2184 | 2189 | 2194 | 2199 | 2204 | 2209 | |
| 8.720 | 0.02 | 2214 | 2219 | 2224 | 2229 | 2234 | 2239 | 2244 | 2249 | 2254 | 2259 | |
| 721 | | 2264 | 2269 | 2274 | 2279 | 2284 | 2289 | 2294 | 2299 | 2304 | 2309 | |
| 722 | | 2314 | 2319 | 2324 | 2329 | 2334 | 2339 | 2344 | 2349 | 2354 | 2359 | 5 |
| 723 | | 2364 | 2369 | 2374 | 2379 | 2384 | 2389 | 2394 | 2399 | 2404 | 2409 | 1 0.5 |
| 724 | | 2414 | 2420 | 2425 | 2430 | 2435 | 2440 | 2445 | 2450 | 2455 | 2460 | 2 1.0 |
| 725 | | 2465 | 2470 | 2475 | 2480 | 2485 | 2490 | 2495 | 2500 | 2505 | 2510 | 3 1.5 |
| 726 | | 2515 | 2520 | 2525 | 2530 | 2535 | 2540 | 2545 | 2550 | 2555 | 2561 | 4 2.0 |
| 727 | | 2566 | 2571 | 2576 | 2581 | 2586 | 2591 | 2596 | 2601 | 2606 | 2612 | 5 2.5 |
| 728 | | 2617 | 2622 | 2627 | 2632 | 2637 | 2642 | 2647 | 2652 | 2657 | 2662 | 6 3.0 |
| 729 | | 2667 | 2672 | 2678 | 2683 | 2688 | 2693 | 2698 | 2703 | 2708 | 2713 | 7 3.5 |
| 8.730 | 0.02 | 2718 | 2723 | 2728 | 2734 | 2739 | 2744 | 2749 | 2754 | 2759 | 2764 | 8 4.0 |
| 731 | | 2769 | 2774 | 2780 | 2785 | 2790 | 2795 | 2800 | 2805 | 2810 | 2815 | 9 4.5 |
| 732 | | 2820 | 2826 | 2831 | 2836 | 2841 | 2846 | 2851 | 2856 | 2861 | 2867 | |
| 733 | | 2872 | 2877 | 2882 | 2887 | 2892 | 2897 | 2902 | 2908 | 2913 | 2918 | |
| 734 | | 2923 | 2928 | 2933 | 2938 | 2944 | 2949 | 2954 | 2959 | 2964 | 2969 | |
| 735 | | 2975 | 2980 | 2985 | 2990 | 2995 | 3000 | 3005 | 3011 | 3016 | 3021 | 6 |
| 736 | | 3026 | 3031 | 3036 | 3042 | 3047 | 3052 | 3057 | 3062 | 3067 | 3073 | 1 0.6 |
| 737 | | 3078 | 3083 | 3088 | 3093 | 3099 | 3104 | 3109 | 3114 | 3119 | 3124 | 2 1.2 |
| 738 | | 3130 | 3135 | 3140 | 3145 | 3150 | 3156 | 3161 | 3166 | 3171 | 3176 | 3 1.8 |
| 739 | | 3182 | 3187 | 3192 | 3197 | 3202 | 3208 | 3213 | 3218 | 3223 | 3228 | 4 2.4 |
| 8.740 | 0.02 | 3234 | 3239 | 3244 | 3249 | 3254 | 3260 | 3265 | 3270 | 3275 | 3280 | 5 3.0 |
| 741 | | 3286 | 3291 | 3296 | 3301 | 3307 | 3312 | 3317 | 3322 | 3327 | 3333 | 6 3.6 |
| 742 | | 3338 | 3343 | 3348 | 3354 | 3359 | 3364 | 3369 | 3375 | 3380 | 3385 | 7 4.2 |
| 743 | | 3390 | 3396 | 3401 | 3406 | 3411 | 3417 | 3422 | 3427 | 3432 | 3438 | 8 4.8 |
| 744 | | 3443 | 3448 | 3453 | 3459 | 3464 | 3469 | 3474 | 3480 | 3485 | 3490 | 9 5.4 |
| 745 | | 3495 | 3501 | 3506 | 3511 | 3517 | 3522 | 3527 | 3532 | 3538 | 3543 | |
| 746 | | 3548 | 3553 | 3559 | 3564 | 3569 | 3575 | 3580 | 3585 | 3590 | 3596 | |
| 747 | | 3601 | 3606 | 3612 | 3617 | 3622 | 3627 | 3633 | 3638 | 3643 | 3649 | |
| 748 | | 3654 | 3659 | 3665 | 3670 | 3675 | 3680 | 3686 | 3691 | 3696 | 3702 | |
| 749 | | 3707 | 3712 | 3718 | 3723 | 3728 | 3734 | 3739 | 3744 | 3750 | 3755 | |
| 8.750 | 0.02 | 3760 | 3766 | 3771 | 3776 | 3782 | 3787 | 3792 | 3797 | 3803 | 3808 | |
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 8.750 | 0.02 | 3760 | 3766 | 3771 | 3776 | 3782 | 3787 | 3792 | 3797 | 3803 | 3808 | |
| 751 | | 3813 | 3819 | 3824 | 3829 | 3835 | 3840 | 3846 | 3851 | 3856 | 3862 | |
| 752 | | 3867 | 3872 | 3878 | 3883 | 3888 | 3894 | 3899 | 3904 | 3910 | 3915 | |
| 753 | | 3920 | 3926 | 3931 | 3937 | 3942 | 3947 | 3953 | 3958 | 3963 | 3969 | |
| 754 | | 3974 | 3980 | 3985 | 3990 | 3996 | 4001 | 4006 | 4012 | 4017 | 4022 | |
| 755 | | 4028 | 4033 | 4039 | 4044 | 4049 | 4055 | 4060 | 4066 | 4071 | 4076 | |
| 756 | | 4082 | 4087 | 4093 | 4098 | 4103 | 4109 | 4114 | 4119 | 4125 | 4130 | |
| 757 | | 4136 | 4141 | 4147 | 4152 | 4157 | 4163 | 4168 | 4174 | 4179 | 4184 | |
| 758 | | 4190 | 4195 | 4201 | 4206 | 4212 | 4217 | 4222 | 4228 | 4233 | 4239 | |
| 759 | | 4244 | 4250 | 4255 | 4260 | 4266 | 4271 | 4277 | 4282 | 4288 | 4293 | |
| 8.760 | 0.02 | 4298 | 4304 | 4309 | 4315 | 4320 | 4326 | 4331 | 4337 | 4342 | 4347 | |
| 761 | | 4353 | 4358 | 4364 | 4369 | 4375 | 4380 | 4386 | 4391 | 4397 | 4402 | |
| 762 | | 4408 | 4413 | 4418 | 4424 | 4429 | 4435 | 4440 | 4446 | 4451 | 4457 | 5 |
| 763 | | 4462 | 4468 | 4473 | 4479 | 4484 | 4490 | 4495 | 4501 | 4506 | 4512 | 1 0.5 |
| 764 | | 4517 | 4523 | 4528 | 4534 | 4539 | 4545 | 4550 | 4556 | 4561 | 4566 | 2 1.0 |
| 765 | | 4572 | 4577 | 4583 | 4589 | 4594 | 4600 | 4605 | 4611 | 4616 | 4622 | 3 1.5 |
| 766 | | 4627 | 4633 | 4638 | 4644 | 4649 | 4655 | 4660 | 4666 | 4671 | 4677 | 4 2.0 |
| 767 | | 4682 | 4688 | 4693 | 4699 | 4704 | 4710 | 4715 | 4721 | 4726 | 4732 | 5 2.5 |
| 768 | | 4738 | 4743 | 4749 | 4754 | 4760 | 4765 | 4771 | 4776 | 4782 | 4787 | 6 3.0 |
| 769 | | 4793 | 4799 | 4804 | 4810 | 4815 | 4821 | 4826 | 4832 | 4837 | 4843 | 7 3.5 |
| 8.770 | 0.02 | 4849 | 4854 | 4860 | 4865 | 4871 | 4876 | 4882 | 4887 | 4893 | 4899 | 8 4.0 |
| 771 | | 4904 | 4910 | 4915 | 4921 | 4927 | 4932 | 4938 | 4943 | 4949 | 4954 | 9 4.5 |
| 772 | | 4960 | 4966 | 4971 | 4977 | 4982 | 4988 | 4994 | 4999 | 5005 | 5010 | |
| 773 | | 5016 | 5022 | 5027 | 5033 | 5038 | 5044 | 5050 | 5055 | 5061 | 5066 | |
| 774 | | 5072 | 5078 | 5083 | 5089 | 5094 | 5100 | 5106 | 5111 | 5117 | 5122 | |
| 775 | | 5128 | 5134 | 5139 | 5145 | 5151 | 5156 | 5162 | 5167 | 5173 | 5179 | |
| 776 | | 5184 | 5190 | 5196 | 5201 | 5207 | 5213 | 5218 | 5224 | 5229 | 5235 | |
| 777 | | 5241 | 5246 | 5252 | 5258 | 5263 | 5269 | 5275 | 5280 | 5286 | 5292 | 6 |
| 778 | | 5297 | 5303 | 5309 | 5314 | 5320 | 5326 | 5331 | 5337 | 5343 | 5348 | 1 0.6 |
| 779 | | 5354 | 5360 | 5365 | 5371 | 5377 | 5382 | 5388 | 5394 | 5399 | 5405 | 2 1.2 |
| 8.780 | 0.02 | 5411 | 5416 | 5422 | 5428 | 5433 | 5439 | 5445 | 5451 | 5456 | 5462 | 3 1.8 |
| 781 | | 5468 | 5473 | 5479 | 5485 | 5490 | 5496 | 5502 | 5508 | 5513 | 5519 | 4 2.4 |
| 782 | | 5525 | 5530 | 5536 | 5542 | 5547 | 5553 | 5559 | 5565 | 5570 | 5576 | 5 3.0 |
| 783 | | 5582 | 5587 | 5593 | 5599 | 5605 | 5610 | 5616 | 5622 | 5628 | 5633 | 6 3.6 |
| 784 | | 5639 | 5645 | 5650 | 5656 | 5662 | 5668 | 5673 | 5679 | 5685 | 5691 | 7 4.2 |
| 785 | | 5696 | 5702 | 5708 | 5714 | 5719 | 5725 | 5731 | 5737 | 5742 | 5748 | 8 4.8 |
| 786 | | 5754 | 5760 | 5765 | 5771 | 5777 | 5783 | 5789 | 5794 | 5800 | 5806 | 9 5.4 |
| 787 | | 5812 | 5817 | 5823 | 5829 | 5835 | 5840 | 5846 | 5852 | 5858 | 5864 | |
| 788 | | 5869 | 5875 | 5881 | 5887 | 5892 | 5898 | 5904 | 5910 | 5916 | 5921 | |
| 789 | | 5927 | 5933 | 5939 | 5945 | 5950 | 5956 | 5962 | 5968 | 5974 | 5979 | |
| 8.790 | 0.02 | 5985 | 5991 | 5997 | 6003 | 6008 | 6014 | 6020 | 6026 | 6032 | 6038 | |
| 791 | | 6043 | 6049 | 6055 | 6061 | 6067 | 6073 | 6078 | 6084 | 6090 | 6096 | |
| 792 | | 6102 | 6107 | 6113 | 6119 | 6125 | 6131 | 6137 | 6143 | 6148 | 6154 | |
| 793 | | 6160 | 6166 | 6172 | 6178 | 6183 | 6189 | 6195 | 6201 | 6207 | 6213 | |
| 794 | | 6219 | 6224 | 6230 | 6236 | 6242 | 6248 | 6254 | 6260 | 6265 | 6271 | |
| 795 | | 6277 | 6283 | 6289 | 6295 | 6301 | 6307 | 6312 | 6318 | 6324 | 6330 | |
| 796 | | 6336 | 6342 | 6348 | 6354 | 6360 | 6365 | 6371 | 6377 | 6383 | 6389 | |
| 797 | | 6395 | 6401 | 6407 | 6413 | 6418 | 6424 | 6430 | 6436 | 6442 | 6448 | |
| 798 | | 6454 | 6460 | 6466 | 6472 | 6478 | 6483 | 6489 | 6495 | 6501 | 6507 | |
| 799 | | 6513 | 6519 | 6525 | 6531 | 6537 | 6543 | 6549 | 6555 | 6561 | 6566 | |
| 8.800 | 0.02 | 6572 | 6578 | 6584 | 6590 | 6596 | 6602 | 6608 | 6614 | 6620 | 6626 | |

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|----------------------------|---|---|---|---|---|-----|
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log(a + b) = \log a + B$ | | | | | | $\log(a - b) = \log b + A$ | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 8.800 | 0.02 | 6572 | 6578 | 6584 | 6590 | 6596 | 6602 | 6608 | 6614 | 6620 | 6626 | |
| 801 | | 6632 | 6638 | 6644 | 6650 | 6656 | 6662 | 6668 | 6673 | 6679 | 6685 | |
| 802 | | 6691 | 6697 | 6703 | 6709 | 6715 | 6721 | 6727 | 6733 | 6739 | 6745 | |
| 803 | | 6751 | 6757 | 6763 | 6769 | 6775 | 6781 | 6787 | 6793 | 6799 | 6805 | |
| 804 | | 6811 | 6817 | 6823 | 6829 | 6835 | 6841 | 6847 | 6853 | 6859 | 6865 | |
| 805 | | 6871 | 6877 | 6883 | 6889 | 6895 | 6901 | 6907 | 6913 | 6919 | 6925 | |
| 806 | | 6931 | 6937 | 6943 | 6949 | 6955 | 6961 | 6967 | 6973 | 6979 | 6985 | |
| 807 | | 6991 | 6997 | 7003 | 7009 | 7015 | 7021 | 7027 | 7033 | 7039 | 7045 | |
| 808 | | 7051 | 7057 | 7063 | 7069 | 7075 | 7082 | 7088 | 7094 | 7100 | 7106 | |
| 809 | | 7112 | 7118 | 7124 | 7130 | 7136 | 7142 | 7148 | 7154 | 7160 | 7166 | |
| 8.810 | 0.02 | 7172 | 7178 | 7184 | 7191 | 7197 | 7203 | 7209 | 7215 | 7221 | 7227 | |
| 811 | | 7233 | 7239 | 7245 | 7251 | 7257 | 7263 | 7270 | 7276 | 7282 | 7288 | |
| 812 | | 7294 | 7300 | 7306 | 7312 | 7318 | 7324 | 7330 | 7337 | 7343 | 7349 | |
| 813 | | 7355 | 7361 | 7367 | 7373 | 7379 | 7385 | 7392 | 7398 | 7404 | 7410 | |
| 814 | | 7416 | 7422 | 7428 | 7434 | 7440 | 7447 | 7453 | 7459 | 7465 | 7471 | |
| 815 | | 7477 | 7483 | 7490 | 7496 | 7502 | 7508 | 7514 | 7520 | 7526 | 7532 | |
| 816 | | 7539 | 7545 | 7551 | 7557 | 7563 | 7569 | 7576 | 7582 | 7588 | 7594 | |
| 817 | | 7600 | 7606 | 7612 | 7619 | 7625 | 7631 | 7637 | 7643 | 7649 | 7656 | |
| 818 | | 7662 | 7668 | 7674 | 7680 | 7686 | 7693 | 7699 | 7705 | 7711 | 7717 | |
| 819 | | 7724 | 7730 | 7736 | 7742 | 7748 | 7754 | 7761 | 7767 | 7773 | 7779 | |
| 8.820 | 0.02 | 7785 | 7792 | 7798 | 7804 | 7810 | 7816 | 7823 | 7829 | 7835 | 7841 | |
| 821 | | 7847 | 7854 | 7860 | 7866 | 7872 | 7879 | 7885 | 7891 | 7897 | 7903 | |
| 822 | | 7910 | 7916 | 7922 | 7928 | 7935 | 7941 | 7947 | 7953 | 7960 | 7966 | |
| 823 | | 7972 | 7978 | 7984 | 7991 | 7997 | 8003 | 8009 | 8016 | 8022 | 8028 | |
| 824 | | 8034 | 8041 | 8047 | 8053 | 8059 | 8066 | 8072 | 8078 | 8084 | 8091 | |
| 825 | | 8097 | 8103 | 8110 | 8116 | 8122 | 8128 | 8135 | 8141 | 8147 | 8153 | |
| 826 | | 8160 | 8166 | 8172 | 8179 | 8185 | 8191 | 8197 | 8204 | 8210 | 8216 | |
| 827 | | 8223 | 8229 | 8235 | 8241 | 8248 | 8254 | 8260 | 8267 | 8273 | 8279 | |
| 828 | | 8286 | 8292 | 8298 | 8304 | 8311 | 8317 | 8323 | 8330 | 8336 | 8342 | |
| 829 | | 8349 | 8355 | 8361 | 8368 | 8374 | 8380 | 8387 | 8393 | 8399 | 8406 | |
| 8.830 | 0.02 | 8412 | 8418 | 8425 | 8431 | 8437 | 8444 | 8450 | 8456 | 8463 | 8469 | |
| 831 | | 8475 | 8482 | 8488 | 8494 | 8501 | 8507 | 8513 | 8520 | 8526 | 8533 | |
| 832 | | 8539 | 8545 | 8552 | 8558 | 8564 | 8571 | 8577 | 8583 | 8590 | 8596 | |
| 833 | | 8603 | 8609 | 8615 | 8622 | 8628 | 8634 | 8641 | 8647 | 8654 | 8660 | |
| 834 | | 8666 | 8673 | 8679 | 8686 | 8692 | 8698 | 8705 | 8711 | 8717 | 8724 | |
| 835 | | 8730 | 8737 | 8743 | 8749 | 8756 | 8762 | 8769 | 8775 | 8782 | 8788 | |
| 836 | | 8794 | 8801 | 8807 | 8814 | 8820 | 8826 | 8833 | 8839 | 8846 | 8852 | |
| 837 | | 8859 | 8865 | 8871 | 8878 | 8884 | 8891 | 8897 | 8904 | 8910 | 8917 | |
| 838 | | 8923 | 8929 | 8936 | 8942 | 8949 | 8955 | 8962 | 8968 | 8975 | 8981 | |
| 839 | | 8987 | 8994 | 9000 | 9007 | 9013 | 9020 | 9026 | 9033 | 9039 | 9046 | |
| 8.840 | 0.02 | 9052 | 9059 | 9065 | 9072 | 9078 | 9084 | 9091 | 9097 | 9104 | 9110 | |
| 841 | | 9117 | 9123 | 9130 | 9136 | 9143 | 9149 | 9156 | 9162 | 9169 | 9175 | |
| 842 | | 9182 | 9188 | 9195 | 9201 | 9208 | 9214 | 9221 | 9227 | 9234 | 9240 | |
| 843 | | 9247 | 9253 | 9260 | 9266 | 9273 | 9279 | 9286 | 9292 | 9299 | 9306 | |
| 844 | | 9312 | 9319 | 9325 | 9332 | 9338 | 9345 | 9351 | 9358 | 9364 | 9371 | |
| 845 | | 9377 | 9384 | 9390 | 9397 | 9404 | 9410 | 9417 | 9423 | 9430 | 9436 | |
| 846 | | 9443 | 9449 | 9456 | 9463 | 9469 | 9476 | 9482 | 9489 | 9495 | 9502 | |
| 847 | | 9508 | 9515 | 9522 | 9528 | 9535 | 9541 | 9548 | 9554 | 9561 | 9568 | |
| 848 | | 9574 | 9581 | 9587 | 9594 | 9601 | 9607 | 9614 | 9620 | 9627 | 9634 | |
| 849 | | 9640 | 9647 | 9653 | 9660 | 9667 | 9673 | 9680 | 9686 | 9693 | 9700 | |
| 8.850 | 0.02 | 9706 | 9713 | 9719 | 9726 | 9733 | 9739 | 9746 | 9752 | 9759 | 9766 | |

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 8.850 | 0.02 | 9706 | 9713 | 9719 | 9726 | 9733 | 9739 | 9746 | 9752 | 9759 | 9766 | |
| 851 | | 9772 | 9779 | 9786 | 9792 | 9799 | 9805 | 9812 | 9819 | 9825 | 9832 | |
| 852 | | 9839 | 9845 | 9852 | 9859 | 9865 | 9872 | 9879 | 9885 | 9892 | 9898 | |
| 853 | | 9905 | 9912 | 9918 | 9925 | 9932 | 9938 | 9945 | 9952 | 9958 | 9965 | |
| 854 | 0.02 | 9972 | 9978 | 9985 | 9992 | 9998 | 0005 | 0012 | 0018 | 0025 | 0032 | |
| 855 | 0.03 | 0039 | 0045 | 0052 | 0059 | 0065 | 0072 | 0079 | 0085 | 0092 | 0099 | |
| 856 | | 0105 | 0112 | 0119 | 0126 | 0132 | 0139 | 0146 | 0152 | 0159 | 0166 | |
| 857 | | 0172 | 0179 | 0186 | 0193 | 0199 | 0206 | 0213 | 0220 | 0226 | 0233 | |
| 858 | | 0240 | 0246 | 0253 | 0260 | 0267 | 0273 | 0280 | 0287 | 0294 | 0300 | |
| 859 | | 0307 | 0314 | 0320 | 0327 | 0334 | 0341 | 0347 | 0354 | 0361 | 0368 | 6 |
| 8.860 | 0.03 | 0374 | 0381 | 0388 | 0395 | 0401 | 0408 | 0415 | 0422 | 0429 | 0435 | 10.6 |
| 861 | | 0442 | 0449 | 0456 | 0462 | 0469 | 0476 | 0483 | 0490 | 0496 | 0503 | 21.2 |
| 862 | | 0510 | 0517 | 0523 | 0530 | 0537 | 0544 | 0551 | 0557 | 0564 | 0571 | 31.8 |
| 863 | | 0578 | 0585 | 0591 | 0598 | 0605 | 0612 | 0619 | 0625 | 0632 | 0639 | 42.4 |
| 864 | | 0646 | 0653 | 0659 | 0666 | 0673 | 0680 | 0687 | 0694 | 0700 | 0707 | 53.0 |
| 865 | | 0714 | 0721 | 0728 | 0735 | 0741 | 0748 | 0755 | 0762 | 0769 | 0776 | 63.6 |
| 866 | | 0782 | 0789 | 0796 | 0803 | 0810 | 0817 | 0823 | 0830 | 0837 | 0844 | 74.2 |
| 867 | | 0851 | 0858 | 0865 | 0871 | 0878 | 0885 | 0892 | 0899 | 0906 | 0913 | 84.8 |
| 868 | | 0920 | 0926 | 0933 | 0940 | 0947 | 0954 | 0961 | 0968 | 0975 | 0981 | 95.4 |
| 869 | | 0988 | 0995 | 1002 | 1009 | 1016 | 1023 | 1030 | 1037 | 1043 | 1050 | |
| 8.870 | 0.03 | 1057 | 1064 | 1071 | 1078 | 1085 | 1092 | 1099 | 1106 | 1113 | 1119 | |
| 871 | | 1126 | 1133 | 1140 | 1147 | 1154 | 1161 | 1168 | 1175 | 1182 | 1189 | 7 |
| 872 | | 1196 | 1202 | 1209 | 1216 | 1223 | 1230 | 1237 | 1244 | 1251 | 1258 | 10.7 |
| 873 | | 1265 | 1272 | 1279 | 1286 | 1293 | 1300 | 1307 | 1314 | 1321 | 1328 | 21.4 |
| 874 | | 1335 | 1341 | 1348 | 1355 | 1362 | 1369 | 1376 | 1383 | 1390 | 1397 | 32.1 |
| 875 | | 1404 | 1411 | 1418 | 1425 | 1432 | 1439 | 1446 | 1453 | 1460 | 1467 | 42.8 |
| 876 | | 1474 | 1481 | 1488 | 1495 | 1502 | 1509 | 1516 | 1523 | 1530 | 1537 | 53.5 |
| 877 | | 1544 | 1551 | 1558 | 1565 | 1572 | 1579 | 1586 | 1593 | 1600 | 1607 | 64.2 |
| 878 | | 1614 | 1621 | 1628 | 1635 | 1642 | 1649 | 1656 | 1663 | 1670 | 1677 | 74.9 |
| 879 | | 1684 | 1691 | 1698 | 1706 | 1713 | 1720 | 1727 | 1734 | 1741 | 1748 | 85.6 |
| 8.880 | 0.03 | 1755 | 1762 | 1769 | 1776 | 1783 | 1790 | 1797 | 1804 | 1811 | 1818 | 96.3 |
| 881 | | 1825 | 1833 | 1840 | 1847 | 1854 | 1861 | 1868 | 1875 | 1882 | 1889 | |
| 882 | | 1896 | 1903 | 1910 | 1917 | 1925 | 1932 | 1939 | 1946 | 1953 | 1960 | |
| 883 | | 1967 | 1974 | 1981 | 1988 | 1995 | 2003 | 2010 | 2017 | 2024 | 2031 | |
| 884 | | 2038 | 2045 | 2052 | 2059 | 2067 | 2074 | 2081 | 2088 | 2095 | 2102 | 8 |
| 885 | | 2109 | 2116 | 2124 | 2131 | 2138 | 2145 | 2152 | 2159 | 2166 | 2173 | 10.8 |
| 886 | | 2181 | 2188 | 2195 | 2202 | 2209 | 2216 | 2224 | 2231 | 2238 | 2245 | 21.6 |
| 887 | | 2252 | 2259 | 2266 | 2274 | 2281 | 2288 | 2295 | 2302 | 2309 | 2317 | 32.4 |
| 888 | | 2324 | 2331 | 2338 | 2345 | 2352 | 2360 | 2367 | 2374 | 2381 | 2388 | 43.2 |
| 889 | | 2396 | 2403 | 2410 | 2417 | 2424 | 2432 | 2439 | 2446 | 2453 | 2460 | 54.0 |
| 8.890 | 0.03 | 2468 | 2475 | 2482 | 2489 | 2496 | 2504 | 2511 | 2518 | 2525 | 2532 | 64.8 |
| 891 | | 2540 | 2547 | 2554 | 2561 | 2569 | 2576 | 2583 | 2590 | 2597 | 2605 | 75.6 |
| 892 | | 2612 | 2619 | 2626 | 2634 | 2641 | 2648 | 2655 | 2663 | 2670 | 2677 | 86.4 |
| 893 | | 2684 | 2692 | 2699 | 2706 | 2713 | 2721 | 2728 | 2735 | 2742 | 2750 | 97.2 |
| 894 | | 2757 | 2764 | 2771 | 2779 | 2786 | 2793 | 2801 | 2808 | 2815 | 2822 | |
| 895 | | 2830 | 2837 | 2844 | 2851 | 2859 | 2866 | 2873 | 2881 | 2888 | 2895 | |
| 896 | | 2903 | 2910 | 2917 | 2924 | 2932 | 2939 | 2946 | 2954 | 2961 | 2968 | |
| 897 | | 2976 | 2983 | 2990 | 2998 | 3005 | 3012 | 3019 | 3027 | 3034 | 3041 | |
| 898 | | 3049 | 3056 | 3063 | 3071 | 3078 | 3085 | 3093 | 3100 | 3107 | 3115 | |
| 899 | | 3122 | 3129 | 3137 | 3144 | 3151 | 3159 | 3166 | 3174 | 3181 | 3188 | |
| 8.900 | 0.03 | 3196 | 3203 | 3210 | 3218 | 3225 | 3232 | 3240 | 3247 | 3255 | 3262 | |

| | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|-----------------------------|---|---|---|---|---|-----|
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|----------------|
| 8.900 | 0.03 3196 | 3203 | 3210 | 3218 | 3225 | 3232 | 3240 | 3247 | 3255 | 3262 | |
| 901 | 3269 | 3277 | 3284 | 3291 | 3299 | 3306 | 3314 | 3321 | 3328 | 3336 | |
| 902 | 3343 | 3351 | 3358 | 3365 | 3373 | 3380 | 3387 | 3395 | 3402 | 3410 | |
| 903 | 3417 | 3424 | 3432 | 3439 | 3447 | 3454 | 3462 | 3469 | 3476 | 3484 | |
| 904 | 3491 | 3499 | 3506 | 3514 | 3521 | 3528 | 3536 | 3543 | 3551 | 3558 | |
| 905 | 3566 | 3573 | 3580 | 3588 | 3595 | 3603 | 3610 | 3618 | 3625 | 3633 | |
| 906 | 3640 | 3647 | 3655 | 3662 | 3670 | 3677 | 3685 | 3692 | 3700 | 3707 | |
| 907 | 3715 | 3722 | 3730 | 3737 | 3744 | 3752 | 3759 | 3767 | 3774 | 3782 | |
| 908 | 3789 | 3797 | 3804 | 3812 | 3819 | 3827 | 3834 | 3842 | 3849 | 3857 | |
| 909 | 3864 | 3872 | 3879 | 3887 | 3894 | 3902 | 3909 | 3917 | 3924 | 3932 | 7 1 0.7 |
| 8.910 | 0.03 3939 | 3947 | 3954 | 3962 | 3969 | 3977 | 3985 | 3992 | 4000 | 4007 | 2 1.4 3 2.1 |
| 911 | 4015 | 4022 | 4030 | 4037 | 4045 | 4052 | 4060 | 4067 | 4075 | 4083 | 4 2.8 |
| 912 | 4090 | 4098 | 4105 | 4113 | 4120 | 4128 | 4135 | 4143 | 4151 | 4158 | 5 3.5 |
| 913 | 4166 | 4173 | 4181 | 4188 | 4196 | 4203 | 4211 | 4219 | 4226 | 4234 | 6 4.2 |
| 914 | 4241 | 4249 | 4257 | 4264 | 4272 | 4279 | 4287 | 4294 | 4302 | 4310 | 7 4.9 |
| 915 | 4317 | 4325 | 4332 | 4340 | 4348 | 4355 | 4363 | 4370 | 4378 | 4386 | 8 5.6 |
| 916 | 4393 | 4401 | 4409 | 4416 | 4424 | 4431 | 4439 | 4447 | 4454 | 4462 | 9 6.3 |
| 917 | 4470 | 4477 | 4485 | 4492 | 4500 | 4508 | 4515 | 4523 | 4531 | 4538 | |
| 918 | 4546 | 4554 | 4561 | 4569 | 4577 | 4584 | 4592 | 4599 | 4607 | 4615 | |
| 919 | 4622 | 4630 | 4638 | 4645 | 4653 | 4661 | 4668 | 4676 | 4684 | 4692 | |
| 8.920 | 0.03 4699 | 4707 | 4715 | 4722 | 4730 | 4738 | 4745 | 4753 | 4761 | 4768 | |
| 921 | 4776 | 4784 | 4791 | 4799 | 4807 | 4815 | 4822 | 4830 | 4838 | 4845 | 8 |
| 922 | 4853 | 4861 | 4869 | 4876 | 4884 | 4892 | 4899 | 4907 | 4915 | 4923 | 1 0.8 |
| 923 | 4930 | 4938 | 4946 | 4953 | 4961 | 4969 | 4977 | 4984 | 4992 | 5000 | 2 1.6 |
| 924 | 5008 | 5015 | 5023 | 5031 | 5039 | 5046 | 5054 | 5062 | 5070 | 5077 | 3 2.4 |
| 925 | 5085 | 5093 | 5101 | 5108 | 5116 | 5124 | 5132 | 5140 | 5147 | 5155 | 4 3.2 |
| 926 | 5163 | 5171 | 5178 | 5186 | 5194 | 5202 | 5210 | 5217 | 5225 | 5233 | 5 4.0 |
| 927 | 5241 | 5249 | 5256 | 5264 | 5272 | 5280 | 5288 | 5295 | 5303 | 5311 | 6 4.8 |
| 928 | 5319 | 5327 | 5334 | 5342 | 5350 | 5358 | 5366 | 5373 | 5381 | 5389 | 7 5.6 |
| 929 | 5397 | 5405 | 5413 | 5420 | 5428 | 5436 | 5444 | 5452 | 5460 | 5467 | 8 6.4 |
| 8.930 | 0.03 5475 | 5483 | 5491 | 5499 | 5507 | 5515 | 5522 | 5530 | 5538 | 5546 | 9 7.2 |
| 931 | 5554 | 5562 | 5570 | 5577 | 5585 | 5593 | 5601 | 5609 | 5617 | 5625 | |
| 932 | 5632 | 5640 | 5648 | 5656 | 5664 | 5672 | 5680 | 5688 | 5696 | 5703 | |
| 933 | 5711 | 5719 | 5727 | 5735 | 5743 | 5751 | 5759 | 5767 | 5775 | 5782 | |
| 934 | 5790 | 5798 | 5806 | 5814 | 5822 | 5830 | 5838 | 5846 | 5854 | 5862 | |
| 935 | 5870 | 5877 | 5885 | 5893 | 5901 | 5909 | 5917 | 5925 | 5933 | 5941 | 9 |
| 936 | 5949 | 5957 | 5965 | 5973 | 5981 | 5989 | 5997 | 6005 | 6013 | 6020 | 1 0.9 |
| 937 | 6028 | 6036 | 6044 | 6052 | 6060 | 6068 | 6076 | 6084 | 6092 | 6100 | 2 1.3 |
| 938 | 6108 | 6116 | 6124 | 6132 | 6140 | 6148 | 6156 | 6164 | 6172 | 6180 | 3 2.7 |
| 939 | 6188 | 6196 | 6204 | 6212 | 6220 | 6228 | 6236 | 6244 | 6252 | 6260 | 4 3.6 |
| 8.940 | 0.03 6268 | 6276 | 6284 | 6292 | 6300 | 6308 | 6316 | 6324 | 6332 | 6340 | 5 4.5 |
| 941 | 6348 | 6356 | 6364 | 6372 | 6380 | 6388 | 6396 | 6404 | 6413 | 6421 | 6 5.4 |
| 942 | 6429 | 6437 | 6445 | 6453 | 6461 | 6469 | 6477 | 6485 | 6493 | 6501 | 7 6.3 |
| 943 | 6509 | 6517 | 6525 | 6533 | 6541 | 6549 | 6558 | 6566 | 6574 | 6582 | 8 7.2 |
| 944 | 6590 | 6598 | 6606 | 6614 | 6622 | 6630 | 6638 | 6646 | 6655 | 6663 | 9 8.1 |
| 945 | 6671 | 6679 | 6687 | 6695 | 6703 | 6711 | 6719 | 6727 | 6736 | 6744 | |
| 946 | 6752 | 6760 | 6768 | 6776 | 6784 | 6792 | 6801 | 6809 | 6817 | 6825 | |
| 947 | 6833 | 6841 | 6849 | 6857 | 6866 | 6874 | 6882 | 6890 | 6898 | 6906 | |
| 948 | 6914 | 6923 | 6931 | 6939 | 6947 | 6955 | 6963 | 6972 | 6980 | 6988 | |
| 949 | 6996 | 7004 | 7012 | 7021 | 7029 | 7037 | 7045 | 7053 | 7061 | 7070 | |
| 8.950 | 0.03 7078 | 7086 | 7094 | 7102 | 7110 | 7119 | 7127 | 7135 | 7143 | 7151 | |

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|------|------|------|------|------|-----------------------------|------|------|------|------|------|------|
| 8.950 | 0.03 | 7078 | 7086 | 7094 | 7102 | 7111 | 7119 | 7127 | 7135 | 7143 | 7151 | |
| 951 | | 7160 | 7168 | 7176 | 7184 | 7192 | 7201 | 7209 | 7217 | 7225 | 7234 | |
| 952 | | 7242 | 7250 | 7258 | 7266 | 7275 | 7283 | 7291 | 7299 | 7308 | 7316 | |
| 953 | | 7324 | 7332 | 7341 | 7349 | 7357 | 7365 | 7373 | 7382 | 7390 | 7398 | |
| 954 | | 7406 | 7415 | 7423 | 7431 | 7440 | 7448 | 7456 | 7464 | 7473 | 7481 | |
| 955 | | 7489 | 7497 | 7506 | 7514 | 7522 | 7530 | 7539 | 7547 | 7555 | 7564 | |
| 956 | | 7572 | 7580 | 7588 | 7597 | 7605 | 7613 | 7622 | 7630 | 7638 | 7647 | |
| 957 | | 7655 | 7663 | 7671 | 7680 | 7688 | 7696 | 7705 | 7713 | 7721 | 7730 | |
| 958 | | 7738 | 7746 | 7755 | 7763 | 7771 | 7780 | 7788 | 7796 | 7805 | 7813 | 8 |
| 959 | | 7821 | 7830 | 7838 | 7846 | 7855 | 7863 | 7871 | 7880 | 7888 | 7896 | 10.8 |
| 8.960 | 0.03 | 7905 | 7913 | 7922 | 7930 | 7938 | 7947 | 7955 | 7963 | 7972 | 7980 | 21.6 |
| 961 | | 7988 | 7997 | 8005 | 8014 | 8022 | 8030 | 8039 | 8047 | 8056 | 8064 | 32.4 |
| 962 | | 8072 | 8081 | 8089 | 8097 | 8106 | 8114 | 8123 | 8131 | 8140 | 8148 | 43.2 |
| 963 | | 8156 | 8165 | 8173 | 8182 | 8190 | 8198 | 8207 | 8215 | 8224 | 8232 | 54.0 |
| 964 | | 8241 | 8249 | 8257 | 8266 | 8274 | 8283 | 8291 | 8300 | 8308 | 8316 | 64.8 |
| 965 | | 8325 | 8333 | 8342 | 8350 | 8359 | 8367 | 8376 | 8384 | 8393 | 8401 | 75.6 |
| 966 | | 8409 | 8418 | 8426 | 8435 | 8443 | 8452 | 8460 | 8469 | 8477 | 8486 | 86.4 |
| 967 | | 8494 | 8503 | 8511 | 8520 | 8528 | 8537 | 8545 | 8554 | 8562 | 8571 | 97.2 |
| 968 | | 8579 | 8588 | 8596 | 8605 | 8613 | 8622 | 8630 | 8639 | 8647 | 8656 | |
| 969 | | 8664 | 8673 | 8681 | 8690 | 8698 | 8707 | 8715 | 8724 | 8732 | 8741 | |
| 8.970 | 0.03 | 8749 | 8758 | 8767 | 8775 | 8784 | 8792 | 8801 | 8809 | 8818 | 8826 | |
| 971 | | 8835 | 8843 | 8852 | 8861 | 8869 | 8878 | 8886 | 8895 | 8903 | 8912 | 9 |
| 972 | | 8921 | 8929 | 8938 | 8946 | 8955 | 8963 | 8972 | 8981 | 8989 | 8998 | 10.9 |
| 973 | | 9006 | 9015 | 9024 | 9032 | 9041 | 9049 | 9058 | 9067 | 9075 | 9084 | 21.8 |
| 974 | | 9092 | 9101 | 9110 | 9118 | 9127 | 9135 | 9144 | 9153 | 9161 | 9170 | 32.7 |
| 975 | | 9179 | 9187 | 9196 | 9204 | 9213 | 9222 | 9230 | 9239 | 9248 | 9256 | 43.6 |
| 976 | | 9265 | 9273 | 9282 | 9291 | 9299 | 9308 | 9317 | 9325 | 9334 | 9343 | 54.5 |
| 977 | | 9351 | 9360 | 9369 | 9377 | 9386 | 9395 | 9403 | 9412 | 9421 | 9429 | 65.4 |
| 978 | | 9438 | 9447 | 9455 | 9464 | 9473 | 9482 | 9490 | 9499 | 9508 | 9516 | 76.3 |
| 979 | | 9525 | 9534 | 9542 | 9551 | 9560 | 9569 | 9577 | 9586 | 9595 | 9603 | 87.2 |
| 8.980 | 0.03 | 9612 | 9621 | 9630 | 9638 | 9647 | 9656 | 9664 | 9673 | 9682 | 9691 | 98.1 |
| 981 | | 9699 | 9708 | 9717 | 9726 | 9734 | 9743 | 9752 | 9761 | 9769 | 9778 | |
| 982 | | 9787 | 9796 | 9804 | 9813 | 9822 | 9831 | 9839 | 9848 | 9857 | 9866 | |
| 983 | | 9874 | 9883 | 9892 | 9901 | 9910 | 9918 | 9927 | 9936 | 9945 | 9953 | |
| 984 | 0.03 | 9962 | 9971 | 9980 | 9989 | 9997 | 0006 | 0015 | 0024 | 0033 | 0041 | 10 |
| 985 | 0.04 | 0050 | 0059 | 0068 | 0077 | 0086 | 0094 | 0103 | 0112 | 0121 | 0130 | 11.0 |
| 986 | | 0138 | 0147 | 0156 | 0165 | 0174 | 0183 | 0191 | 0200 | 0209 | 0218 | 22.0 |
| 987 | | 0227 | 0236 | 0245 | 0253 | 0262 | 0271 | 0280 | 0289 | 0298 | 0307 | 33.0 |
| 988 | | 0315 | 0324 | 0333 | 0342 | 0351 | 0360 | 0369 | 0377 | 0386 | 0395 | 44.0 |
| 989 | | 0404 | 0413 | 0422 | 0431 | 0440 | 0449 | 0457 | 0466 | 0475 | 0484 | 55.0 |
| 8.990 | 0.04 | 0493 | 0502 | 0511 | 0520 | 0529 | 0538 | 0546 | 0555 | 0564 | 0573 | 66.0 |
| 991 | | 0582 | 0591 | 0600 | 0609 | 0618 | 0627 | 0636 | 0645 | 0654 | 0663 | 77.0 |
| 992 | | 0671 | 0680 | 0689 | 0698 | 0707 | 0716 | 0725 | 0734 | 0743 | 0752 | 88.0 |
| 993 | | 0761 | 0770 | 0779 | 0788 | 0797 | 0806 | 0815 | 0824 | 0833 | 0842 | 99.0 |
| 994 | | 0851 | 0860 | 0869 | 0878 | 0887 | 0896 | 0905 | 0914 | 0923 | 0932 | |
| 995 | | 0941 | 0950 | 0959 | 0968 | 0977 | 0986 | 0995 | 1004 | 1013 | 1022 | |
| 996 | | 1031 | 1040 | 1049 | 1058 | 1067 | 1076 | 1085 | 1094 | 1103 | 1112 | |
| 997 | | 1121 | 1130 | 1139 | 1148 | 1157 | 1166 | 1175 | 1184 | 1193 | 1202 | |
| 998 | | 1211 | 1220 | 1229 | 1238 | 1247 | 1256 | 1265 | 1275 | 1284 | 1293 | |
| 999 | | 1302 | 1311 | 1320 | 1329 | 1338 | 1347 | 1356 | 1365 | 1375 | 1384 | |
| 9.000 | 0.04 | 1393 | 1402 | 1411 | 1420 | 1429 | 1438 | 1447 | 1456 | 1465 | 1475 | |
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log (a + b) = \log u + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 9.000 | 0.04 | 1393 | 1402 | 1411 | 1420 | 1429 | 1438 | 1447 | 1456 | 1465 | 1475 | |
| 001 | | 1484 | 1493 | 1502 | 1511 | 1520 | 1529 | 1538 | 1548 | 1557 | 1566 | |
| 002 | | 1575 | 1584 | 1593 | 1602 | 1610 | 1621 | 1630 | 1639 | 1648 | 1657 | |
| 003 | | 1666 | 1675 | 1685 | 1694 | 1703 | 1712 | 1721 | 1730 | 1740 | 1749 | |
| 004 | | 1758 | 1767 | 1776 | 1785 | 1795 | 1804 | 1813 | 1822 | 1831 | 1840 | |
| 005 | | 1850 | 1859 | 1868 | 1877 | 1886 | 1896 | 1905 | 1914 | 1923 | 1932 | |
| 006 | | 1942 | 1951 | 1960 | 1969 | 1978 | 1988 | 1997 | 2006 | 2015 | 2024 | |
| 007 | | 2034 | 2043 | 2052 | 2061 | 2071 | 2080 | 2089 | 2098 | 2108 | 2117 | |
| 008 | | 2126 | 2135 | 2145 | 2154 | 2163 | 2172 | 2182 | 2191 | 2200 | 2209 | |
| 009 | | 2219 | 2228 | 2237 | 2246 | 2256 | 2265 | 2274 | 2284 | 2293 | 2302 | 9 |
| 9.010 | 0.04 | 2311 | 2321 | 2330 | 2339 | 2348 | 2358 | 2367 | 2376 | 2386 | 2395 | 10.9 |
| 011 | | 2404 | 2414 | 2423 | 2432 | 2442 | 2451 | 2460 | 2469 | 2479 | 2488 | 21.8 |
| 012 | | 2497 | 2507 | 2516 | 2525 | 2535 | 2544 | 2553 | 2563 | 2572 | 2581 | 32.7 |
| 013 | | 2591 | 2600 | 2609 | 2619 | 2628 | 2637 | 2647 | 2656 | 2666 | 2675 | 43.6 |
| 014 | | 2684 | 2694 | 2703 | 2712 | 2722 | 2731 | 2740 | 2750 | 2759 | 2769 | 54.5 |
| 015 | | 2778 | 2787 | 2797 | 2806 | 2815 | 2825 | 2834 | 2844 | 2853 | 2862 | 65.4 |
| 016 | | 2872 | 2881 | 2891 | 2900 | 2909 | 2919 | 2928 | 2938 | 2947 | 2957 | 76.3 |
| 017 | | 2966 | 2975 | 2985 | 2994 | 3004 | 3013 | 3022 | 3032 | 3041 | 3051 | 87.2 |
| 018 | | 3060 | 3070 | 3079 | 3089 | 3098 | 3107 | 3117 | 3126 | 3136 | 3145 | 98.1 |
| 019 | | 3155 | 3164 | 3174 | 3183 | 3193 | 3202 | 3212 | 3221 | 3231 | 3240 | |
| 9.020 | 0.04 | 3249 | 3259 | 3268 | 3278 | 3287 | 3297 | 3306 | 3316 | 3325 | 3335 | |
| 021 | | 3344 | 3354 | 3363 | 3373 | 3382 | 3392 | 3401 | 3411 | 3420 | 3430 | 10 |
| 022 | | 3439 | 3449 | 3458 | 3468 | 3477 | 3487 | 3497 | 3506 | 3516 | 3525 | 11.0 |
| 023 | | 3535 | 3544 | 3554 | 3563 | 3573 | 3582 | 3592 | 3601 | 3611 | 3621 | 22.0 |
| 024 | | 3630 | 3640 | 3649 | 3659 | 3668 | 3678 | 3688 | 3697 | 3707 | 3716 | 33.0 |
| 025 | | 3726 | 3735 | 3745 | 3755 | 3764 | 3774 | 3783 | 3793 | 3803 | 3812 | 44.0 |
| 026 | | 3822 | 3831 | 3841 | 3851 | 3860 | 3870 | 3879 | 3889 | 3899 | 3908 | 55.0 |
| 027 | | 3918 | 3927 | 3937 | 3947 | 3956 | 3966 | 3976 | 3985 | 3995 | 4004 | 66.0 |
| 028 | | 4014 | 4024 | 4033 | 4043 | 4053 | 4062 | 4072 | 4082 | 4091 | 4101 | 77.0 |
| 029 | | 4111 | 4120 | 4130 | 4140 | 4149 | 4159 | 4169 | 4178 | 4188 | 4198 | 88.0 |
| 9.030 | 0.04 | 4207 | 4217 | 4226 | 4236 | 4246 | 4256 | 4265 | 4275 | 4285 | 4294 | 99.0 |
| 031 | | 4304 | 4314 | 4324 | 4333 | 4343 | 4353 | 4362 | 4372 | 4382 | 4391 | |
| 032 | | 4401 | 4411 | 4421 | 4430 | 4440 | 4450 | 4460 | 4469 | 4479 | 4489 | |
| 033 | | 4498 | 4508 | 4518 | 4528 | 4537 | 4547 | 4557 | 4567 | 4576 | 4586 | |
| 034 | | 4596 | 4606 | 4615 | 4625 | 4635 | 4645 | 4655 | 4664 | 4674 | 4684 | |
| 035 | | 4694 | 4703 | 4713 | 4723 | 4733 | 4743 | 4752 | 4762 | 4772 | 4782 | 11 |
| 036 | | 4792 | 4801 | 4811 | 4821 | 4831 | 4841 | 4850 | 4860 | 4870 | 4880 | 11.1 |
| 037 | | 4890 | 4899 | 4909 | 4919 | 4929 | 4939 | 4949 | 4958 | 4968 | 4978 | 22.2 |
| 038 | | 4988 | 4998 | 5008 | 5017 | 5027 | 5037 | 5047 | 5057 | 5067 | 5077 | 33.3 |
| 039 | | 5086 | 5096 | 5106 | 5116 | 5126 | 5136 | 5146 | 5156 | 5165 | 5175 | 44.4 |
| 9.040 | 0.04 | 5185 | 5195 | 5205 | 5215 | 5225 | 5235 | 5244 | 5254 | 5264 | 5274 | 55.5 |
| 041 | | 5284 | 5294 | 5304 | 5314 | 5324 | 5334 | 5344 | 5353 | 5363 | 5373 | 66.6 |
| 042 | | 5383 | 5393 | 5403 | 5413 | 5423 | 5433 | 5443 | 5453 | 5463 | 5473 | 77.7 |
| 043 | | 5483 | 5492 | 5502 | 5512 | 5522 | 5532 | 5542 | 5552 | 5562 | 5572 | 88.8 |
| 044 | | 5582 | 5592 | 5602 | 5612 | 5622 | 5632 | 5642 | 5652 | 5662 | 5672 | 99.9 |
| 045 | | 5682 | 5692 | 5702 | 5712 | 5722 | 5732 | 5742 | 5752 | 5762 | 5772 | |
| 046 | | 5782 | 5792 | 5802 | 5812 | 5822 | 5832 | 5842 | 5852 | 5862 | 5872 | |
| 047 | | 5882 | 5892 | 5902 | 5912 | 5922 | 5932 | 5942 | 5952 | 5962 | 5972 | |
| 048 | | 5982 | 5992 | 6002 | 6012 | 6022 | 6032 | 6043 | 6053 | 6063 | 6073 | |
| 049 | | 6083 | 6093 | 6103 | 6113 | 6123 | 6133 | 6143 | 6153 | 6163 | 6174 | |
| 9.050 | 0.04 | 6184 | 6194 | 6204 | 6214 | 6224 | 6234 | 6244 | 6254 | 6264 | 6274 | |

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|----------------------------|---|---|---|---|---|-----|
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log(a + b) = \log a + B$ | | | | | | $\log(a - b) = \log b + A$ | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|-------|
| 9.050 | 0.04 6184 | 6194 | 6204 | 6214 | 6224 | 6234 | 6244 | 6254 | 6264 | 6274 | |
| 051 | 6285 | 6295 | 6305 | 6315 | 6325 | 6335 | 6345 | 6355 | 6366 | 6376 | |
| 052 | 6386 | 6396 | 6406 | 6416 | 6426 | 6436 | 6447 | 6457 | 6467 | 6477 | |
| 053 | 6487 | 6497 | 6508 | 6518 | 6528 | 6538 | 6548 | 6558 | 6568 | 6579 | |
| 054 | 6589 | 6599 | 6609 | 6619 | 6630 | 6640 | 6650 | 6660 | 6670 | 6680 | |
| 055 | 6691 | 6701 | 6711 | 6721 | 6731 | 6742 | 6752 | 6762 | 6772 | 6782 | |
| 056 | 6793 | 6803 | 6813 | 6823 | 6834 | 6844 | 6854 | 6864 | 6874 | 6885 | |
| 057 | 6895 | 6905 | 6915 | 6926 | 6936 | 6946 | 6956 | 6967 | 6977 | 6987 | |
| 058 | 6997 | 7008 | 7018 | 7028 | 7038 | 7049 | 7059 | 7069 | 7080 | 7090 | 10 |
| 059 | 7100 | 7110 | 7121 | 7131 | 7141 | 7152 | 7162 | 7172 | 7182 | 7193 | 11.0 |
| 9.060 | 0.04 7203 | 7213 | 7224 | 7234 | 7244 | 7254 | 7265 | 7275 | 7285 | 7296 | 2.0 |
| 061 | 7306 | 7316 | 7327 | 7337 | 7347 | 7358 | 7368 | 7378 | 7389 | 7399 | 3.0 |
| 062 | 7409 | 7420 | 7430 | 7440 | 7451 | 7461 | 7471 | 7482 | 7492 | 7503 | 4.0 |
| 063 | 7513 | 7523 | 7534 | 7544 | 7554 | 7565 | 7575 | 7585 | 7596 | 7606 | 5.0 |
| 064 | 7617 | 7627 | 7637 | 7648 | 7658 | 7669 | 7679 | 7689 | 7700 | 7710 | 6.0 |
| 065 | 7721 | 7731 | 7741 | 7752 | 7762 | 7773 | 7783 | 7793 | 7804 | 7814 | 7.0 |
| 066 | 7825 | 7835 | 7846 | 7856 | 7866 | 7877 | 7887 | 7898 | 7908 | 7919 | 8.0 |
| 067 | 7929 | 7940 | 7950 | 7960 | 7971 | 7981 | 7992 | 8002 | 8013 | 8023 | 9.0 |
| 068 | 8034 | 8044 | 8055 | 8065 | 8076 | 8086 | 8097 | 8107 | 8118 | 8128 | |
| 069 | 8139 | 8149 | 8160 | 8170 | 8181 | 8191 | 8202 | 8212 | 8223 | 8233 | |
| 9.070 | 0.04 8244 | 8254 | 8265 | 8275 | 8286 | 8296 | 8307 | 8317 | 8328 | 8338 | |
| 071 | 8349 | 8359 | 8370 | 8380 | 8391 | 8402 | 8412 | 8423 | 8433 | 8444 | 11 |
| 072 | 8454 | 8465 | 8475 | 8486 | 8497 | 8507 | 8518 | 8528 | 8539 | 8549 | 11.1 |
| 073 | 8560 | 8571 | 8581 | 8592 | 8602 | 8613 | 8623 | 8634 | 8645 | 8655 | 2.2 |
| 074 | 8666 | 8676 | 8687 | 8698 | 8708 | 8719 | 8729 | 8740 | 8751 | 8761 | 3.3 |
| 075 | 8772 | 8783 | 8793 | 8804 | 8814 | 8825 | 8836 | 8846 | 8857 | 8868 | 4.4 |
| 076 | 8878 | 8889 | 8900 | 8910 | 8921 | 8932 | 8942 | 8953 | 8964 | 8974 | 5.5 |
| 077 | 8985 | 8996 | 9006 | 9017 | 9028 | 9038 | 9049 | 9060 | 9070 | 9081 | 6.6 |
| 078 | 9092 | 9102 | 9113 | 9124 | 9134 | 9145 | 9156 | 9166 | 9177 | 9188 | 7.7 |
| 079 | 9199 | 9209 | 9220 | 9231 | 9241 | 9252 | 9263 | 9274 | 9284 | 9295 | 8.8 |
| 9.080 | 0.04 9306 | 9317 | 9327 | 9338 | 9349 | 9360 | 9370 | 9381 | 9392 | 9403 | 9.9 |
| 081 | 9413 | 9424 | 9435 | 9446 | 9456 | 9467 | 9478 | 9489 | 9499 | 9510 | |
| 082 | 9521 | 9532 | 9542 | 9553 | 9564 | 9575 | 9586 | 9596 | 9607 | 9618 | |
| 083 | 9629 | 9640 | 9650 | 9661 | 9672 | 9683 | 9694 | 9704 | 9715 | 9726 | |
| 084 | 9737 | 9748 | 9759 | 9769 | 9780 | 9791 | 9802 | 9813 | 9824 | 9834 | 12 |
| 085 | 9845 | 9856 | 9867 | 9878 | 9889 | 9899 | 9910 | 9921 | 9932 | 9943 | 1.2 |
| 086 | 0.04 9954 | 9965 | 9975 | 9986 | 9997 | 0008 | 0019 | 0030 | 0041 | 0052 | 2.4 |
| 087 | 0.05 0063 | 0073 | 0084 | 0095 | 0106 | 0117 | 0128 | 0139 | 0150 | 0161 | 3.6 |
| 088 | 0172 | 0182 | 0193 | 0204 | 0215 | 0226 | 0237 | 0248 | 0259 | 0270 | 4.8 |
| 089 | 0281 | 0292 | 0303 | 0314 | 0324 | 0335 | 0346 | 0357 | 0368 | 0379 | 5.6 |
| 9.090 | 0.05 0390 | 0401 | 0412 | 0423 | 0434 | 0445 | 0456 | 0467 | 0478 | 0489 | 6.7 |
| 091 | 0500 | 0510 | 0522 | 0533 | 0544 | 0555 | 0566 | 0577 | 0588 | 0599 | 7.8 |
| 092 | 0610 | 0621 | 0632 | 0643 | 0654 | 0665 | 0676 | 0687 | 0698 | 0709 | 8.4 |
| 093 | 0720 | 0731 | 0742 | 0753 | 0764 | 0775 | 0786 | 0797 | 0808 | 0819 | 9.0.8 |
| 094 | 0830 | 0841 | 0852 | 0863 | 0874 | 0885 | 0896 | 0908 | 0919 | 0930 | |
| 095 | 0941 | 0952 | 0963 | 0974 | 0985 | 0996 | 1007 | 1018 | 1029 | 1040 | |
| 096 | 1052 | 1063 | 1074 | 1085 | 1096 | 1107 | 1118 | 1129 | 1140 | 1151 | |
| 097 | 1163 | 1174 | 1185 | 1196 | 1207 | 1218 | 1229 | 1240 | 1251 | 1263 | |
| 098 | 1274 | 1285 | 1296 | 1307 | 1318 | 1329 | 1341 | 1352 | 1363 | 1374 | |
| 099 | 1385 | 1396 | 1408 | 1419 | 1430 | 1441 | 1452 | 1463 | 1475 | 1486 | |
| 9.100 | 0.05 1497 | 1508 | 1519 | 1530 | 1542 | 1553 | 1564 | 1575 | 1586 | 1598 | |

$$\log b - \log a = A$$

$$\log a - \log b = B$$

$$\log (a + b) = \log a + B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|-----------|------|------|------|------|-----------------------------|------|------|------|------|-------|
| 9.100 | 0.05 1497 | 1508 | 1519 | 1530 | 1542 | 1553 | 1564 | 1575 | 1586 | 1598 | |
| 101 | 1609 | 1620 | 1631 | 1642 | 1654 | 1665 | 1676 | 1687 | 1699 | 1710 | |
| 102 | 1721 | 1732 | 1743 | 1755 | 1766 | 1777 | 1788 | 1800 | 1811 | 1822 | |
| 103 | 1833 | 1845 | 1856 | 1867 | 1878 | 1890 | 1901 | 1912 | 1923 | 1935 | |
| 104 | 1946 | 1957 | 1969 | 1980 | 1991 | 2002 | 2014 | 2025 | 2036 | 2048 | |
| 105 | 2059 | 2070 | 2081 | 2093 | 2104 | 2115 | 2127 | 2138 | 2149 | 2161 | |
| 106 | 2172 | 2183 | 2195 | 2206 | 2217 | 2229 | 2240 | 2251 | 2263 | 2274 | |
| 107 | 2285 | 2297 | 2308 | 2319 | 2331 | 2342 | 2353 | 2365 | 2376 | 2387 | |
| 108 | 2399 | 2410 | 2422 | 2433 | 2444 | 2456 | 2467 | 2478 | 2490 | 2501 | II |
| 109 | 2513 | 2524 | 2535 | 2547 | 2558 | 2570 | 2581 | 2592 | 2604 | 2615 | I 1.1 |
| 9.110 | 0.05 2627 | 2638 | 2649 | 2661 | 2672 | 2684 | 2695 | 2707 | 2718 | 2729 | 2 2.2 |
| 111 | 2741 | 2752 | 2764 | 2775 | 2787 | 2798 | 2809 | 2821 | 2832 | 2844 | 3 3.3 |
| 112 | 2855 | 2867 | 2878 | 2890 | 2901 | 2913 | 2924 | 2936 | 2947 | 2959 | 4 4.4 |
| 113 | 2970 | 2982 | 2993 | 3004 | 3016 | 3027 | 3039 | 3050 | 3062 | 3073 | 5 5.5 |
| 114 | 3085 | 3096 | 3108 | 3119 | 3131 | 3143 | 3154 | 3166 | 3177 | 3189 | 6 6.6 |
| 115 | 3200 | 3212 | 3223 | 3235 | 3246 | 3258 | 3269 | 3281 | 3292 | 3304 | 7 7.7 |
| 116 | 3316 | 3327 | 3339 | 3350 | 3362 | 3373 | 3385 | 3396 | 3408 | 3420 | 8 8.8 |
| 117 | 3431 | 3443 | 3454 | 3466 | 3478 | 3489 | 3501 | 3512 | 3524 | 3535 | 9 9.9 |
| 118 | 3547 | 3559 | 3570 | 3582 | 3593 | 3605 | 3617 | 3628 | 3640 | 3652 | |
| 119 | 3663 | 3675 | 3686 | 3698 | 3710 | 3721 | 3733 | 3745 | 3756 | 3768 | |
| 9.120 | 0.05 3780 | 3791 | 3803 | 3814 | 3826 | 3838 | 3849 | 3861 | 3873 | 3884 | 12 |
| 121 | 3896 | 3908 | 3919 | 3931 | 3943 | 3955 | 3966 | 3978 | 3990 | 4001 | I 1.2 |
| 122 | 4013 | 4025 | 4036 | 4048 | 4060 | 4071 | 4083 | 4095 | 4107 | 4118 | 2 2.4 |
| 123 | 4130 | 4142 | 4153 | 4165 | 4177 | 4189 | 4200 | 4212 | 4224 | 4236 | 3 3.6 |
| 124 | 4247 | 4259 | 4271 | 4283 | 4294 | 4306 | 4318 | 4330 | 4341 | 4353 | 4 4.8 |
| 125 | 4365 | 4377 | 4388 | 4400 | 4412 | 4424 | 4436 | 4447 | 4459 | 4471 | 5 5.0 |
| 126 | 4483 | 4494 | 4506 | 4518 | 4530 | 4542 | 4553 | 4565 | 4577 | 4589 | 6 6.2 |
| 127 | 4601 | 4612 | 4624 | 4636 | 4648 | 4660 | 4672 | 4683 | 4695 | 4707 | 7 7.4 |
| 128 | 4719 | 4731 | 4743 | 4754 | 4766 | 4778 | 4790 | 4802 | 4814 | 4826 | 8 8.6 |
| 129 | 4837 | 4849 | 4861 | 4873 | 4885 | 4897 | 4909 | 4921 | 4932 | 4944 | 9 9.8 |
| 9.130 | 0.05 4956 | 4968 | 4980 | 4992 | 5004 | 5016 | 5028 | 5039 | 5051 | 5063 | |
| 131 | 5075 | 5087 | 5099 | 5111 | 5123 | 5135 | 5147 | 5159 | 5171 | 5182 | |
| 132 | 5194 | 5206 | 5218 | 5230 | 5242 | 5254 | 5266 | 5278 | 5290 | 5302 | |
| 133 | 5314 | 5326 | 5338 | 5350 | 5362 | 5374 | 5386 | 5398 | 5410 | 5422 | I3 |
| 134 | 5434 | 5446 | 5458 | 5470 | 5482 | 5494 | 5506 | 5517 | 5530 | 5542 | I 1.3 |
| 135 | 5554 | 5566 | 5578 | 5590 | 5602 | 5614 | 5626 | 5638 | 5650 | 5662 | 2 2.6 |
| 136 | 5674 | 5686 | 5698 | 5710 | 5722 | 5734 | 5746 | 5758 | 5770 | 5782 | 3 3.9 |
| 137 | 5794 | 5806 | 5818 | 5830 | 5842 | 5854 | 5867 | 5879 | 5891 | 5903 | 4 4.2 |
| 138 | 5915 | 5927 | 5939 | 5951 | 5963 | 5975 | 5987 | 5999 | 6012 | 6024 | 5 5.5 |
| 139 | 6036 | 6048 | 6060 | 6072 | 6084 | 6096 | 6108 | 6121 | 6133 | 6145 | 6 6.8 |
| 9.140 | 0.05 6157 | 6169 | 6181 | 6193 | 6205 | 6218 | 6230 | 6242 | 6254 | 6266 | 7 7.1 |
| 141 | 6278 | 6290 | 6303 | 6315 | 6327 | 6339 | 6351 | 6363 | 6376 | 6388 | 8 8.4 |
| 142 | 6400 | 6412 | 6424 | 6437 | 6449 | 6461 | 6473 | 6485 | 6498 | 6510 | 9 9.7 |
| 143 | 6522 | 6534 | 6546 | 6559 | 6571 | 6583 | 6595 | 6607 | 6620 | 6632 | |
| 144 | 6644 | 6656 | 6669 | 6681 | 6693 | 6705 | 6717 | 6730 | 6742 | 6754 | |
| 145 | 6766 | 6779 | 6791 | 6803 | 6816 | 6828 | 6840 | 6852 | 6865 | 6877 | |
| 146 | 6889 | 6901 | 6914 | 6926 | 6938 | 6951 | 6963 | 6975 | 6987 | 7000 | |
| 147 | 7012 | 7024 | 7037 | 7049 | 7061 | 7074 | 7086 | 7098 | 7111 | 7123 | |
| 148 | 7135 | 7148 | 7160 | 7172 | 7185 | 7197 | 7209 | 7222 | 7234 | 7246 | |
| 149 | 7259 | 7271 | 7283 | 7296 | 7308 | 7320 | 7333 | 7345 | 7357 | 7370 | |
| 9.150 | 0.05 7382 | 7395 | 7407 | 7419 | 7432 | 7444 | 7457 | 7469 | 7481 | 7494 | |
| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|--------|
| 9.150 | 0.05 | 7382 | 7395 | 7407 | 7419 | 7432 | 7444 | 7457 | 7469 | 7481 | 7494 | |
| 151 | | 7506 | 7519 | 7531 | 7543 | 7556 | 7568 | 7581 | 7593 | 7605 | 7618 | |
| 152 | | 7630 | 7643 | 7655 | 7668 | 7680 | 7692 | 7705 | 7717 | 7730 | 7742 | |
| 153 | | 7755 | 7767 | 7780 | 7792 | 7804 | 7817 | 7829 | 7842 | 7854 | 7867 | |
| 154 | | 7879 | 7892 | 7904 | 7917 | 7929 | 7942 | 7954 | 7967 | 7979 | 7992 | |
| 155 | | 8004 | 8017 | 8029 | 8042 | 8054 | 8067 | 8079 | 8092 | 8104 | 8117 | |
| 156 | | 8129 | 8142 | 8154 | 8167 | 8179 | 8192 | 8205 | 8217 | 8230 | 8242 | |
| 157 | | 8255 | 8267 | 8280 | 8292 | 8305 | 8318 | 8330 | 8343 | 8355 | 8368 | |
| 158 | | 8380 | 8393 | 8406 | 8418 | 8431 | 8443 | 8456 | 8469 | 8481 | 8494 | 12 |
| 159 | | 8506 | 8519 | 8532 | 8544 | 8557 | 8569 | 8582 | 8595 | 8607 | 8620 | 1 1.2 |
| 9.160 | 0.05 | 8632 | 8645 | 8658 | 8670 | 8683 | 8696 | 8708 | 8721 | 8734 | 8746 | 2 2.4 |
| 161 | | 8759 | 8772 | 8784 | 8797 | 8810 | 8822 | 8835 | 8848 | 8860 | 8873 | 3 3.6 |
| 162 | | 8886 | 8898 | 8911 | 8924 | 8936 | 8949 | 8962 | 8974 | 8987 | 9000 | 4 4.8 |
| 163 | | 9012 | 9025 | 9038 | 9051 | 9063 | 9076 | 9089 | 9101 | 9114 | 9127 | 5 6.0 |
| 164 | | 9140 | 9152 | 9165 | 9178 | 9191 | 9203 | 9216 | 9229 | 9242 | 9254 | 6 7.2 |
| 165 | | 9267 | 9280 | 9293 | 9305 | 9318 | 9331 | 9344 | 9356 | 9369 | 9382 | 7 8.4 |
| 166 | | 9395 | 9408 | 9420 | 9433 | 9446 | 9459 | 9472 | 9484 | 9497 | 9510 | 8 9.6 |
| 167 | | 9523 | 9536 | 9548 | 9561 | 9574 | 9587 | 9600 | 9612 | 9625 | 9638 | 9 10.8 |
| 168 | | 9651 | 9664 | 9677 | 9689 | 9702 | 9715 | 9728 | 9741 | 9754 | 9767 | |
| 169 | | 9779 | 9792 | 9805 | 9818 | 9831 | 9844 | 9857 | 9870 | 9882 | 9895 | |
| 9.170 | 0.05 | 9908 | 9921 | 9934 | 9947 | 9960 | 9973 | 9986 | 9998 | 10011 | 10024 | |
| 171 | 0.06 | 0037 | 0050 | 0063 | 0076 | 0089 | 0102 | 0115 | 0128 | 0141 | 0153 | 13 |
| 172 | | 0166 | 0179 | 0192 | 0205 | 0218 | 0231 | 0244 | 0257 | 0270 | 0283 | 1 1.3 |
| 173 | | 0296 | 0309 | 0322 | 0335 | 0348 | 0361 | 0374 | 0387 | 0400 | 0413 | 2 2.6 |
| 174 | | 0426 | 0439 | 0452 | 0465 | 0478 | 0491 | 0504 | 0517 | 0530 | 0543 | 3 3.9 |
| 175 | | 0556 | 0569 | 0582 | 0595 | 0608 | 0621 | 0634 | 0647 | 0660 | 0673 | 4 5.2 |
| 176 | | 0686 | 0699 | 0712 | 0725 | 0738 | 0751 | 0764 | 0777 | 0790 | 0803 | 5 6.5 |
| 177 | | 0816 | 0830 | 0843 | 0856 | 0869 | 0882 | 0895 | 0908 | 0921 | 0934 | 6 7.8 |
| 178 | | 0947 | 0960 | 0973 | 0987 | 1000 | 1013 | 1026 | 1039 | 1052 | 1065 | 7 9.1 |
| 179 | | 1078 | 1091 | 1105 | 1118 | 1131 | 1144 | 1157 | 1170 | 1183 | 1197 | 8 10.4 |
| 9.180 | 0.06 | 1210 | 1223 | 1236 | 1249 | 1262 | 1275 | 1289 | 1302 | 1315 | 1328 | 9 11.7 |
| 181 | | 1341 | 1354 | 1368 | 1381 | 1394 | 1407 | 1420 | 1434 | 1447 | 1460 | |
| 182 | | 1473 | 1486 | 1500 | 1513 | 1526 | 1539 | 1552 | 1566 | 1579 | 1592 | |
| 183 | | 1605 | 1618 | 1632 | 1645 | 1658 | 1671 | 1685 | 1698 | 1711 | 1724 | |
| 184 | | 1738 | 1751 | 1764 | 1777 | 1791 | 1804 | 1817 | 1830 | 1844 | 1857 | 14 |
| 185 | | 1870 | 1884 | 1897 | 1910 | 1923 | 1937 | 1950 | 1963 | 1977 | 1990 | 1 1.4 |
| 186 | | 2003 | 2016 | 2030 | 2043 | 2056 | 2070 | 2083 | 2096 | 2110 | 2123 | 2 2.8 |
| 187 | | 2136 | 2150 | 2163 | 2176 | 2190 | 2203 | 2216 | 2230 | 2243 | 2256 | 3 4.2 |
| 188 | | 2270 | 2283 | 2297 | 2310 | 2323 | 2337 | 2350 | 2363 | 2377 | 2390 | 4 5.6 |
| 189 | | 2411 | 2424 | 2437 | 2450 | 2463 | 2477 | 2490 | 2503 | 2517 | 2530 | 5 7.0 |
| 9.190 | 0.06 | 2537 | 2551 | 2564 | 2578 | 2591 | 2605 | 2618 | 2631 | 2645 | 2658 | 6 8.4 |
| 191 | | 2672 | 2685 | 2699 | 2712 | 2726 | 2739 | 2752 | 2766 | 2779 | 2793 | 7 9.8 |
| 192 | | 2806 | 2820 | 2833 | 2847 | 2860 | 2874 | 2887 | 2901 | 2914 | 2928 | 8 11.2 |
| 193 | | 2941 | 2955 | 2968 | 2982 | 2995 | 3009 | 3022 | 3036 | 3049 | 3063 | 9 12.6 |
| 194 | | 3076 | 3090 | 3103 | 3117 | 3130 | 3144 | 3157 | 3171 | 3184 | 3198 | |
| 195 | | 3211 | 3225 | 3238 | 3252 | 3266 | 3279 | 3293 | 3306 | 3320 | 3333 | |
| 196 | | 3347 | 3361 | 3374 | 3388 | 3401 | 3415 | 3428 | 3442 | 3456 | 3469 | |
| 197 | | 3483 | 3496 | 3510 | 3524 | 3537 | 3551 | 3564 | 3578 | 3592 | 3605 | |
| 198 | | 3619 | 3633 | 3646 | 3660 | 3673 | 3687 | 3701 | 3714 | 3728 | 3742 | |
| 199 | | 3755 | 3769 | 3783 | 3796 | 3810 | 3824 | 3837 | 3851 | 3865 | 3878 | |
| 9.200 | 0.06 | 3892 | 3906 | 3919 | 3933 | 3947 | 3960 | 3974 | 3988 | 4002 | 4015 | |

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | FP. |
|-----------------------------|-----------|------|------|------|------|-----------------------------|------|------|------|-------|--------|
| 9.200 | 0.06 3892 | 3906 | 3919 | 3933 | 3947 | 3960 | 3974 | 3988 | 4002 | 4015 | |
| 201 | 4029 | 4043 | 4056 | 4070 | 4084 | 4098 | 4111 | 4125 | 4139 | 4152 | |
| 202 | 4166 | 4180 | 4194 | 4207 | 4221 | 4235 | 4249 | 4262 | 4276 | 4290 | |
| 203 | 4304 | 4317 | 4331 | 4345 | 4359 | 4373 | 4386 | 4400 | 4414 | 4428 | |
| 204 | 4441 | 4455 | 4469 | 4483 | 4497 | 4510 | 4524 | 4538 | 4552 | 4566 | 13 |
| 205 | 4579 | 4593 | 4607 | 4621 | 4635 | 4649 | 4662 | 4676 | 4690 | 4704 | 1 1.3 |
| 206 | 4718 | 4732 | 4745 | 4759 | 4773 | 4787 | 4801 | 4815 | 4829 | 4842 | 2 2.6 |
| 207 | 4856 | 4870 | 4884 | 4898 | 4912 | 4926 | 4940 | 4954 | 4967 | 4981 | 3 3.9 |
| 208 | 4995 | 5009 | 5023 | 5037 | 5051 | 5065 | 5079 | 5093 | 5107 | 5120 | 4 5.2 |
| 209 | 5134 | 5148 | 5162 | 5176 | 5190 | 5204 | 5218 | 5232 | 5246 | 5260 | 5 6.5 |
| 9.210 | 0.06 5274 | 5288 | 5302 | 5316 | 5330 | 5344 | 5358 | 5372 | 5386 | 5399 | 6 7.8 |
| 211 | 5413 | 5427 | 5441 | 5455 | 5469 | 5483 | 5497 | 5511 | 5525 | 5539 | 7 9.1 |
| 212 | 5553 | 5567 | 5581 | 5595 | 5609 | 5624 | 5638 | 5652 | 5666 | 5680 | 8 10.4 |
| 213 | 5694 | 5708 | 5722 | 5736 | 5750 | 5764 | 5778 | 5792 | 5806 | 5820 | 9 11.7 |
| 214 | 5834 | 5848 | 5862 | 5876 | 5890 | 5905 | 5919 | 5933 | 5947 | 5961 | |
| 215 | 5975 | 5989 | 6003 | 6017 | 6031 | 6045 | 6060 | 6074 | 6088 | 6102 | 14 |
| 216 | 6116 | 6130 | 6144 | 6158 | 6173 | 6187 | 6201 | 6215 | 6229 | 6243 | 1 1.4 |
| 217 | 6257 | 6272 | 6286 | 6300 | 6314 | 6328 | 6342 | 6357 | 6371 | 6385 | 2 2.8 |
| 218 | 6399 | 6413 | 6427 | 6442 | 6456 | 6470 | 6484 | 6498 | 6513 | 6527 | 3 4.2 |
| 219 | 6541 | 6555 | 6569 | 6584 | 6598 | 6612 | 6626 | 6640 | 6655 | 6669 | 4 5.6 |
| 9.220 | 0.06 6683 | 6697 | 6712 | 6726 | 6740 | 6754 | 6769 | 6783 | 6797 | 6811 | 5 7.0 |
| 221 | 6826 | 6840 | 6854 | 6868 | 6883 | 6897 | 6911 | 6926 | 6940 | 6954 | 6 8.4 |
| 222 | 6968 | 6983 | 6997 | 7011 | 7026 | 7040 | 7054 | 7068 | 7083 | 7097 | 7 9.8 |
| 223 | 7111 | 7126 | 7140 | 7154 | 7169 | 7183 | 7197 | 7212 | 7226 | 7240 | 8 11.2 |
| 224 | 7255 | 7269 | 7283 | 7298 | 7312 | 7327 | 7341 | 7355 | 7370 | 7384 | |
| 225 | 7398 | 7413 | 7427 | 7442 | 7456 | 7470 | 7485 | 7499 | 7513 | 7528 | 15 |
| 226 | 7542 | 7557 | 7571 | 7585 | 7600 | 7614 | 7629 | 7643 | 7658 | 7672 | 1 1.5 |
| 227 | 7686 | 7701 | 7715 | 7730 | 7744 | 7759 | 7773 | 7788 | 7802 | 7816 | 2 3.0 |
| 228 | 7831 | 7845 | 7860 | 7874 | 7889 | 7903 | 7918 | 7932 | 7947 | 7961 | 3 4.5 |
| 229 | 7976 | 7990 | 8005 | 8019 | 8034 | 8048 | 8063 | 8077 | 8092 | 8106 | 4 6.0 |
| 9.230 | 0.06 8121 | 8135 | 8150 | 8164 | 8179 | 8193 | 8208 | 8222 | 8237 | 8251 | 5 7.5 |
| 231 | 8266 | 8281 | 8295 | 8310 | 8324 | 8339 | 8353 | 8368 | 8382 | 8397 | 6 9.0 |
| 232 | 8412 | 8426 | 8441 | 8455 | 8470 | 8484 | 8499 | 8513 | 8528 | 8542 | 7 10.5 |
| 233 | 8557 | 8572 | 8587 | 8601 | 8616 | 8631 | 8645 | 8660 | 8674 | 8689 | 8 12.0 |
| 234 | 8704 | 8718 | 8733 | 8748 | 8762 | 8777 | 8791 | 8806 | 8821 | 8835 | 9 13.5 |
| 235 | 8850 | 8865 | 8879 | 8894 | 8909 | 8923 | 8938 | 8953 | 8967 | 8982 | |
| 236 | 8997 | 9012 | 9026 | 9041 | 9056 | 9070 | 9085 | 9100 | 9114 | 9129 | |
| 237 | 9144 | 9159 | 9173 | 9188 | 9203 | 9218 | 9232 | 9247 | 9262 | 9276 | |
| 238 | 9291 | 9306 | 9321 | 9335 | 9350 | 9365 | 9380 | 9395 | 9409 | 9424 | 16 |
| 239 | 9439 | 9454 | 9468 | 9483 | 9498 | 9513 | 9528 | 9542 | 9557 | 9572 | 1 1.6 |
| 9.240 | 0.06 9587 | 9602 | 9616 | 9631 | 9646 | 9661 | 9676 | 9690 | 9705 | 9720 | 2 3.2 |
| 241 | 9735 | 9750 | 9765 | 9779 | 9794 | 9809 | 9824 | 9839 | 9854 | 9869 | 3 4.8 |
| 242 | 0.06 9883 | 9898 | 9913 | 9928 | 9943 | 9958 | 9973 | 9988 | 9999 | 10000 | 4 6.4 |
| 243 | 0.07 0032 | 0047 | 0062 | 0077 | 0092 | 0107 | 0122 | 0137 | 0151 | 0166 | 5 8.0 |
| 244 | 0181 | 0196 | 0211 | 0226 | 0241 | 0256 | 0271 | 0286 | 0301 | 0316 | 6 9.6 |
| 245 | 0331 | 0346 | 0361 | 0376 | 0390 | 0405 | 0420 | 0435 | 0450 | 0465 | 7 11.2 |
| 246 | 0480 | 0495 | 0510 | 0525 | 0540 | 0555 | 0570 | 0585 | 0600 | 0615 | 8 12.8 |
| 247 | 0630 | 0645 | 0660 | 0675 | 0690 | 0705 | 0720 | 0735 | 0750 | 0765 | 9 14.4 |
| 248 | 0780 | 0795 | 0810 | 0825 | 0840 | 0855 | 0870 | 0885 | 0900 | 0915 | |
| 249 | 0931 | 0946 | 0961 | 0976 | 0991 | 1006 | 1021 | 1037 | 1052 | 1067 | |
| 9.250 | 0.07 1082 | 1097 | 1112 | 1127 | 1142 | 1157 | 1172 | 1188 | 1203 | 1218 | |
| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 9.250 | 0.07 | 1082 | 1097 | 1112 | 1127 | 1142 | 1157 | 1172 | 1188 | 1203 | 1218 | |
| 251 | | 1233 | 1248 | 1263 | 1278 | 1294 | 1309 | 1324 | 1339 | 1354 | 1369 | |
| 252 | | 1384 | 1400 | 1415 | 1430 | 1445 | 1460 | 1475 | 1491 | 1506 | 1521 | |
| 253 | | 1536 | 1551 | 1567 | 1582 | 1597 | 1612 | 1627 | 1643 | 1658 | 1673 | |
| 254 | | 1688 | 1703 | 1719 | 1734 | 1749 | 1764 | 1779 | 1795 | 1810 | 1825 | |
| 255 | | 1840 | 1856 | 1871 | 1886 | 1901 | 1917 | 1932 | 1947 | 1963 | 1978 | |
| 256 | | 1993 | 2008 | 2024 | 2039 | 2054 | 2069 | 2085 | 2100 | 2115 | 2131 | |
| 257 | | 2146 | 2161 | 2177 | 2192 | 2207 | 2223 | 2238 | 2253 | 2269 | 2284 | |
| 258 | | 2299 | 2315 | 2330 | 2345 | 2361 | 2376 | 2391 | 2407 | 2422 | 2437 | |
| 259 | | 2453 | 2468 | 2483 | 2499 | 2514 | 2530 | 2545 | 2560 | 2576 | 2591 | 15 |
| 9.260 | 0.07 | 2606 | 2622 | 2637 | 2653 | 2668 | 2684 | 2699 | 2714 | 2730 | 2745 | 1 1.5 |
| 261 | | 2761 | 2776 | 2791 | 2807 | 2822 | 2838 | 2853 | 2869 | 2884 | 2900 | 2 3.0 |
| 262 | | 2915 | 2930 | 2946 | 2961 | 2977 | 2992 | 3008 | 3023 | 3039 | 3054 | 3 4.5 |
| 263 | | 3070 | 3085 | 3101 | 3116 | 3132 | 3147 | 3163 | 3178 | 3194 | 3209 | 4 6.0 |
| 264 | | 3225 | 3240 | 3256 | 3271 | 3287 | 3302 | 3318 | 3333 | 3349 | 3364 | 5 7.5 |
| 265 | | 3380 | 3396 | 3411 | 3427 | 3442 | 3458 | 3473 | 3489 | 3504 | 3520 | 6 9.0 |
| 266 | | 3536 | 3551 | 3567 | 3582 | 3598 | 3614 | 3629 | 3645 | 3660 | 3676 | 7 10.5 |
| 267 | | 3692 | 3707 | 3723 | 3738 | 3754 | 3770 | 3785 | 3801 | 3816 | 3832 | 8 12.0 |
| 268 | | 3848 | 3863 | 3879 | 3895 | 3910 | 3926 | 3942 | 3957 | 3973 | 3989 | 9 13.5 |
| 269 | | 4004 | 4020 | 4036 | 4051 | 4067 | 4083 | 4098 | 4114 | 4130 | 4145 | |
| 9.270 | 0.07 | 4161 | 4177 | 4193 | 4208 | 4224 | 4240 | 4255 | 4271 | 4287 | 4303 | |
| 271 | | 4318 | 4334 | 4350 | 4365 | 4381 | 4397 | 4413 | 4428 | 4444 | 4460 | 16 |
| 272 | | 4476 | 4491 | 4507 | 4523 | 4539 | 4555 | 4570 | 4586 | 4602 | 4618 | 1 1.6 |
| 273 | | 4633 | 4649 | 4665 | 4681 | 4697 | 4712 | 4728 | 4744 | 4760 | 4776 | 2 3.2 |
| 274 | | 4791 | 4807 | 4823 | 4839 | 4855 | 4871 | 4886 | 4902 | 4918 | 4934 | 3 4.8 |
| 275 | | 4950 | 4966 | 4982 | 4997 | 5013 | 5029 | 5045 | 5061 | 5077 | 5093 | 4 6.4 |
| 276 | | 5108 | 5124 | 5140 | 5156 | 5172 | 5188 | 5204 | 5220 | 5236 | 5252 | 5 8.0 |
| 277 | | 5267 | 5283 | 5299 | 5315 | 5331 | 5347 | 5363 | 5379 | 5395 | 5411 | 6 9.6 |
| 278 | | 5427 | 5443 | 5459 | 5475 | 5491 | 5506 | 5522 | 5538 | 5554 | 5570 | 7 11.2 |
| 279 | | 5586 | 5602 | 5618 | 5634 | 5650 | 5666 | 5682 | 5698 | 5714 | 5730 | 8 12.8 |
| 9.280 | 0.07 | 5746 | 5762 | 5778 | 5794 | 5810 | 5826 | 5842 | 5858 | 5874 | 5890 | 9 14.4 |
| 281 | | 5906 | 5922 | 5938 | 5955 | 5971 | 5987 | 6003 | 6019 | 6035 | 6051 | |
| 282 | | 6067 | 6083 | 6099 | 6115 | 6131 | 6147 | 6163 | 6179 | 6196 | 6212 | |
| 283 | | 6228 | 6244 | 6260 | 6276 | 6292 | 6308 | 6324 | 6341 | 6357 | 6373 | |
| 284 | | 6389 | 6405 | 6421 | 6437 | 6453 | 6470 | 6486 | 6502 | 6518 | 6534 | 17 |
| 285 | | 6550 | 6566 | 6583 | 6599 | 6615 | 6631 | 6647 | 6664 | 6680 | 6696 | 1 1.7 |
| 286 | | 6712 | 6728 | 6744 | 6761 | 6777 | 6793 | 6809 | 6826 | 6842 | 6858 | 2 3.4 |
| 287 | | 6874 | 6890 | 6907 | 6923 | 6939 | 6955 | 6972 | 6988 | 7004 | 7020 | 3 5.1 |
| 288 | | 7037 | 7053 | 7069 | 7085 | 7102 | 7118 | 7134 | 7150 | 7167 | 7183 | 4 6.8 |
| 289 | | 7199 | 7216 | 7232 | 7248 | 7264 | 7281 | 7297 | 7313 | 7330 | 7346 | 5 8.5 |
| 9.290 | 0.07 | 7362 | 7379 | 7395 | 7411 | 7428 | 7444 | 7460 | 7477 | 7493 | 7509 | 6 10.2 |
| 291 | | 7526 | 7542 | 7558 | 7575 | 7591 | 7607 | 7624 | 7640 | 7656 | 7673 | 7 11.9 |
| 292 | | 7689 | 7706 | 7722 | 7738 | 7755 | 7771 | 7788 | 7804 | 7820 | 7837 | 8 13.6 |
| 293 | | 7853 | 7870 | 7886 | 7902 | 7919 | 7935 | 7952 | 7968 | 7985 | 8001 | 9 15.3 |
| 294 | | 8017 | 8034 | 8050 | 8067 | 8083 | 8100 | 8116 | 8133 | 8149 | 8166 | |
| 295 | | 8182 | 8199 | 8215 | 8231 | 8248 | 8264 | 8281 | 8297 | 8314 | 8330 | |
| 296 | | 8347 | 8363 | 8380 | 8396 | 8413 | 8430 | 8446 | 8463 | 8479 | 8496 | |
| 297 | | 8512 | 8529 | 8545 | 8562 | 8578 | 8595 | 8611 | 8628 | 8645 | 8661 | |
| 298 | | 8678 | 8694 | 8711 | 8727 | 8744 | 8761 | 8777 | 8794 | 8810 | 8827 | |
| 299 | | 8844 | 8860 | 8877 | 8893 | 8910 | 8927 | 8943 | 8960 | 8976 | 8993 | |
| 9.300 | 0.07 | 9010 | 9026 | 9043 | 9060 | 9076 | 9093 | 9110 | 9126 | 9143 | 9160 | |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|-----------|------|------|------|------|-----------------------------|------|------|------|------|--------|
| 9.300 | 0.07 9010 | 9026 | 9043 | 9060 | 9076 | 9093 | 9110 | 9126 | 9143 | 9160 | |
| 301 | 9176 | 9193 | 9210 | 9226 | 9243 | 9260 | 9276 | 9293 | 9310 | 9326 | |
| 302 | 9343 | 9360 | 9376 | 9393 | 9410 | 9427 | 9443 | 9460 | 9477 | 9493 | |
| 303 | 9510 | 9527 | 9544 | 9560 | 9577 | 9594 | 9611 | 9627 | 9644 | 9661 | |
| 304 | 9678 | 9694 | 9711 | 9728 | 9745 | 9762 | 9778 | 9795 | 9812 | 9829 | 16 |
| 305 | 0.07 9845 | 9862 | 9879 | 9896 | 9913 | 9929 | 9946 | 9963 | 9980 | 9997 | 1 1.6 |
| 306 | 0.08 0014 | 0030 | 0047 | 0064 | 0081 | 0098 | 0115 | 0131 | 0148 | 0165 | 2 3.2 |
| 307 | 0182 | 0199 | 0216 | 0233 | 0249 | 0266 | 0283 | 0300 | 0317 | 0334 | 3 4.8 |
| 308 | 0351 | 0368 | 0384 | 0401 | 0418 | 0435 | 0452 | 0469 | 0486 | 0503 | 4 6.4 |
| 309 | 0520 | 0537 | 0554 | 0571 | 0587 | 0604 | 0621 | 0638 | 0655 | 0672 | 5 8.0 |
| 9.310 | 0.08 0689 | 0706 | 0723 | 0740 | 0757 | 0774 | 0791 | 0808 | 0825 | 0842 | 6 9.6 |
| 311 | 0859 | 0876 | 0893 | 0910 | 0927 | 0944 | 0961 | 0978 | 0995 | 1012 | 7 11.2 |
| 312 | 1029 | 1046 | 1063 | 1080 | 1097 | 1114 | 1131 | 1148 | 1165 | 1182 | 8 12.8 |
| 313 | 1199 | 1216 | 1233 | 1250 | 1268 | 1285 | 1302 | 1319 | 1336 | 1353 | 9 14.4 |
| 314 | 1370 | 1387 | 1404 | 1421 | 1438 | 1455 | 1473 | 1490 | 1507 | 1524 | |
| 315 | 1541 | 1558 | 1575 | 1592 | 1610 | 1627 | 1644 | 1661 | 1678 | 1695 | |
| 316 | 1712 | 1730 | 1747 | 1764 | 1781 | 1798 | 1815 | 1832 | 1850 | 1867 | 17 |
| 317 | 1884 | 1901 | 1918 | 1936 | 1953 | 1970 | 1987 | 2004 | 2022 | 2039 | 1 1.7 |
| 318 | 2056 | 2073 | 2090 | 2108 | 2125 | 2142 | 2159 | 2177 | 2194 | 2211 | 2 3.4 |
| 319 | 2228 | 2246 | 2263 | 2280 | 2297 | 2315 | 2332 | 2349 | 2366 | 2384 | 3 5.1 |
| 9.320 | 0.08 2401 | 2418 | 2436 | 2453 | 2470 | 2487 | 2505 | 2522 | 2539 | 2557 | 4 6.8 |
| 321 | 2574 | 2591 | 2609 | 2626 | 2643 | 2661 | 2678 | 2695 | 2713 | 2730 | 5 8.5 |
| 322 | 2747 | 2765 | 2782 | 2799 | 2817 | 2834 | 2851 | 2869 | 2886 | 2904 | 6 10.2 |
| 323 | 2921 | 2938 | 2956 | 2973 | 2991 | 3008 | 3025 | 3043 | 3060 | 3078 | 7 11.9 |
| 324 | 3095 | 3112 | 3130 | 3147 | 3165 | 3182 | 3199 | 3217 | 3234 | 3252 | 8 13.6 |
| 325 | 3269 | 3287 | 3304 | 3322 | 3339 | 3357 | 3374 | 3391 | 3409 | 3426 | 9 15.3 |
| 326 | 3444 | 3461 | 3479 | 3496 | 3514 | 3531 | 3549 | 3566 | 3584 | 3601 | |
| 327 | 3619 | 3636 | 3654 | 3671 | 3689 | 3706 | 3724 | 3742 | 3759 | 3777 | 18 |
| 328 | 3794 | 3812 | 3829 | 3847 | 3864 | 3882 | 3900 | 3917 | 3935 | 3952 | 1 1.8 |
| 329 | 3970 | 3987 | 4005 | 4023 | 4040 | 4058 | 4075 | 4093 | 4111 | 4128 | 2 3.6 |
| 9.330 | 0.08 4146 | 4163 | 4181 | 4199 | 4216 | 4234 | 4252 | 4269 | 4287 | 4304 | 3 5.4 |
| 331 | 4322 | 4340 | 4357 | 4375 | 4393 | 4410 | 4428 | 4446 | 4463 | 4481 | 4 7.2 |
| 332 | 4499 | 4516 | 4534 | 4552 | 4569 | 4587 | 4605 | 4623 | 4640 | 4658 | 5 9.0 |
| 333 | 4676 | 4693 | 4711 | 4729 | 4747 | 4764 | 4782 | 4800 | 4818 | 4835 | 6 10.8 |
| 334 | 4853 | 4871 | 4889 | 4906 | 4924 | 4942 | 4960 | 4977 | 4995 | 5013 | 7 12.6 |
| 335 | 5031 | 5048 | 5066 | 5084 | 5102 | 5120 | 5137 | 5155 | 5173 | 5191 | 8 14.4 |
| 336 | 5209 | 5226 | 5244 | 5262 | 5280 | 5298 | 5316 | 5333 | 5351 | 5369 | 9 16.2 |
| 337 | 5387 | 5405 | 5423 | 5441 | 5458 | 5476 | 5494 | 5512 | 5530 | 5548 | |
| 338 | 5566 | 5584 | 5601 | 5619 | 5637 | 5655 | 5673 | 5691 | 5709 | 5727 | |
| 339 | 5745 | 5763 | 5780 | 5798 | 5816 | 5834 | 5852 | 5870 | 5888 | 5906 | 19 |
| 9.340 | 0.08 5924 | 5942 | 5960 | 5978 | 5996 | 6014 | 6032 | 6050 | 6068 | 6086 | 1 1.9 |
| 341 | 6104 | 6122 | 6140 | 6158 | 6176 | 6194 | 6212 | 6230 | 6248 | 6266 | 2 3.8 |
| 342 | 6284 | 6302 | 6320 | 6338 | 6356 | 6374 | 6392 | 6410 | 6428 | 6446 | 3 5.7 |
| 343 | 6464 | 6482 | 6500 | 6518 | 6536 | 6554 | 6572 | 6590 | 6609 | 6627 | 4 7.6 |
| 344 | 6645 | 6663 | 6681 | 6699 | 6717 | 6735 | 6753 | 6771 | 6789 | 6808 | 5 9.5 |
| 345 | 6826 | 6844 | 6862 | 6880 | 6898 | 6916 | 6935 | 6953 | 6971 | 6989 | 6 11.4 |
| 346 | 7007 | 7025 | 7043 | 7062 | 7080 | 7098 | 7116 | 7134 | 7152 | 7171 | 7 13.3 |
| 347 | 7189 | 7207 | 7225 | 7243 | 7262 | 7280 | 7298 | 7316 | 7334 | 7353 | 8 15.2 |
| 348 | 7371 | 7389 | 7407 | 7426 | 7444 | 7462 | 7480 | 7499 | 7517 | 7535 | 9 17.1 |
| 349 | 7553 | 7572 | 7590 | 7608 | 7626 | 7645 | 7663 | 7681 | 7699 | 7718 | |
| 9.350 | 0.08 7736 | 7754 | 7773 | 7791 | 7809 | 7828 | 7846 | 7864 | 7882 | 7901 | |
| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 9.350 | 0.08 | 7736 | 7754 | 7773 | 7791 | 7809 | 7828 | 7846 | 7864 | 7882 | 7901 | |
| 351 | | 7919 | 7937 | 7956 | 7974 | 7992 | 8011 | 8029 | 8048 | 8066 | 8084 | 18 |
| 352 | | 8103 | 8121 | 8139 | 8158 | 8176 | 8194 | 8213 | 8231 | 8250 | 8268 | 1.8 |
| 353 | | 8286 | 8305 | 8323 | 8342 | 8360 | 8378 | 8397 | 8415 | 8434 | 8452 | 2.1 |
| 354 | | 8470 | 8489 | 8507 | 8526 | 8544 | 8563 | 8581 | 8600 | 8618 | 8636 | 3 |
| 355 | | 8655 | 8673 | 8692 | 8710 | 8729 | 8747 | 8766 | 8784 | 8803 | 8821 | 4 |
| 356 | | 8840 | 8858 | 8877 | 8895 | 8914 | 8932 | 8951 | 8969 | 8988 | 9006 | 5 |
| 357 | | 9025 | 9043 | 9062 | 9081 | 9099 | 9118 | 9136 | 9155 | 9173 | 9192 | 6 |
| 358 | | 9210 | 9229 | 9248 | 9266 | 9285 | 9303 | 9322 | 9341 | 9359 | 9378 | 7 |
| 359 | | 9396 | 9415 | 9434 | 9452 | 9471 | 9489 | 9508 | 9527 | 9545 | 9564 | 8 |
| 9.360 | 0.08 | 9583 | 9601 | 9620 | 9638 | 9657 | 9676 | 9694 | 9713 | 9732 | 9750 | 9 |
| 361 | | 9769 | 9788 | 9806 | 9825 | 9844 | 9863 | 9881 | 9900 | 9919 | 9937 | 10 |
| 362 | 0.08 | 9956 | 9975 | 9993 | 0012 | 0031 | 0050 | 0068 | 0087 | 0106 | 0125 | 11 |
| 363 | 0.09 | 0143 | 0162 | 0181 | 0200 | 0218 | 0237 | 0256 | 0275 | 0293 | 0312 | 12 |
| 364 | | 0331 | 0350 | 0368 | 0387 | 0406 | 0425 | 0444 | 0462 | 0481 | 0500 | 13 |
| 365 | | 0519 | 0538 | 0556 | 0575 | 0594 | 0613 | 0632 | 0651 | 0669 | 0688 | 14 |
| 366 | | 0707 | 0726 | 0745 | 0764 | 0783 | 0801 | 0820 | 0839 | 0858 | 0877 | 15 |
| 367 | | 0896 | 0915 | 0934 | 0953 | 0971 | 0990 | 1009 | 1028 | 1047 | 1066 | 16 |
| 368 | | 1085 | 1104 | 1123 | 1142 | 1161 | 1180 | 1198 | 1217 | 1236 | 1255 | 17 |
| 369 | | 1274 | 1293 | 1312 | 1331 | 1350 | 1369 | 1388 | 1407 | 1426 | 1445 | 18 |
| 9.370 | 0.09 | 1464 | 1483 | 1502 | 1521 | 1540 | 1559 | 1578 | 1597 | 1616 | 1635 | 19 |
| 371 | | 1654 | 1673 | 1692 | 1711 | 1730 | 1749 | 1768 | 1787 | 1806 | 1825 | 20 |
| 372 | | 1844 | 1864 | 1883 | 1902 | 1921 | 1940 | 1959 | 1978 | 1997 | 2016 | 21 |
| 373 | | 2035 | 2054 | 2073 | 2093 | 2112 | 2131 | 2150 | 2169 | 2188 | 2207 | 22 |
| 374 | | 2226 | 2246 | 2265 | 2284 | 2303 | 2322 | 2341 | 2360 | 2380 | 2399 | 23 |
| 375 | | 2418 | 2437 | 2456 | 2475 | 2495 | 2514 | 2533 | 2552 | 2571 | 2591 | 24 |
| 376 | | 2610 | 2629 | 2648 | 2667 | 2687 | 2706 | 2725 | 2744 | 2764 | 2783 | 25 |
| 377 | | 2802 | 2821 | 2840 | 2860 | 2879 | 2898 | 2918 | 2937 | 2956 | 2975 | 26 |
| 378 | | 2995 | 3014 | 3033 | 3052 | 3072 | 3091 | 3110 | 3130 | 3149 | 3168 | 27 |
| 379 | | 3188 | 3207 | 3226 | 3245 | 3265 | 3284 | 3303 | 3323 | 3342 | 3361 | 28 |
| 9.380 | 0.09 | 3381 | 3400 | 3420 | 3439 | 3458 | 3478 | 3497 | 3516 | 3536 | 3555 | 29 |
| 381 | | 3574 | 3594 | 3613 | 3633 | 3652 | 3671 | 3691 | 3710 | 3730 | 3749 | 30 |
| 382 | | 3768 | 3788 | 3807 | 3827 | 3846 | 3866 | 3885 | 3904 | 3924 | 3943 | 31 |
| 383 | | 3963 | 3982 | 4002 | 4021 | 4041 | 4060 | 4080 | 4099 | 4119 | 4138 | 32 |
| 384 | | 4158 | 4177 | 4197 | 4216 | 4236 | 4255 | 4275 | 4294 | 4314 | 4333 | 33 |
| 385 | | 4353 | 4372 | 4392 | 4411 | 4431 | 4450 | 4470 | 4489 | 4509 | 4529 | 34 |
| 386 | | 4548 | 4568 | 4587 | 4607 | 4626 | 4646 | 4666 | 4685 | 4705 | 4724 | 35 |
| 387 | | 4744 | 4764 | 4783 | 4803 | 4822 | 4842 | 4862 | 4881 | 4901 | 4920 | 36 |
| 388 | | 4940 | 4960 | 4979 | 4999 | 5019 | 5038 | 5058 | 5078 | 5097 | 5117 | 37 |
| 389 | | 5137 | 5156 | 5176 | 5196 | 5215 | 5235 | 5255 | 5274 | 5294 | 5314 | 38 |
| 9.390 | 0.09 | 5334 | 5353 | 5373 | 5393 | 5412 | 5432 | 5452 | 5472 | 5491 | 5511 | 39 |
| 391 | | 5531 | 5551 | 5570 | 5590 | 5610 | 5630 | 5649 | 5669 | 5689 | 5709 | 40 |
| 392 | | 5728 | 5748 | 5768 | 5788 | 5808 | 5827 | 5847 | 5867 | 5887 | 5907 | 41 |
| 393 | | 5926 | 5946 | 5966 | 5986 | 6006 | 6026 | 6045 | 6065 | 6085 | 6105 | 42 |
| 394 | | 6125 | 6145 | 6165 | 6184 | 6204 | 6224 | 6244 | 6264 | 6284 | 6304 | 43 |
| 395 | | 6324 | 6343 | 6363 | 6383 | 6403 | 6423 | 6443 | 6463 | 6483 | 6503 | 44 |
| 396 | | 6523 | 6543 | 6563 | 6583 | 6602 | 6622 | 6642 | 6662 | 6682 | 6702 | 45 |
| 397 | | 6722 | 6742 | 6762 | 6782 | 6802 | 6822 | 6842 | 6862 | 6882 | 6902 | 46 |
| 398 | | 6922 | 6942 | 6962 | 6982 | 7002 | 7022 | 7042 | 7062 | 7082 | 7102 | 47 |
| 399 | | 7122 | 7142 | 7162 | 7182 | 7202 | 7222 | 7243 | 7263 | 7283 | 7303 | 48 |
| 9.400 | 0.09 | 7323 | 7343 | 7363 | 7383 | 7403 | 7423 | 7443 | 7463 | 7484 | 7504 | 49 |

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|-----------|------|------|------|------|-----------------------------|------|------|------|------|-----|
| 9.400 | 0.09 7323 | 7343 | 7363 | 7383 | 7403 | 7423 | 7443 | 7463 | 7484 | 7504 | |
| 401 | 7524 | 7544 | 7564 | 7584 | 7604 | 7624 | 7644 | 7665 | 7685 | 7705 | |
| 402 | 7725 | 7745 | 7765 | 7786 | 7806 | 7826 | 7846 | 7866 | 7886 | 7907 | |
| 403 | 7927 | 7947 | 7967 | 7987 | 8008 | 8028 | 8048 | 8068 | 8088 | 8109 | |
| 404 | 8129 | 8149 | 8169 | 8189 | 8210 | 8230 | 8250 | 8270 | 8291 | 8311 | |
| 405 | 8331 | 8351 | 8372 | 8392 | 8412 | 8433 | 8453 | 8473 | 8493 | 8514 | |
| 406 | 8534 | 8554 | 8575 | 8595 | 8615 | 8636 | 8656 | 8676 | 8697 | 8717 | |
| 407 | 8737 | 8758 | 8778 | 8798 | 8819 | 8839 | 8859 | 8880 | 8900 | 8920 | |
| 408 | 8941 | 8961 | 8981 | 9002 | 9022 | 9043 | 9063 | 9083 | 9104 | 9124 | |
| 409 | 9145 | 9165 | 9185 | 9206 | 9226 | 9247 | 9267 | 9288 | 9308 | 9329 | |
| 9.410 | 0.09 9349 | 9369 | 9390 | 9410 | 9431 | 9451 | 9472 | 9492 | 9513 | 9533 | |
| 411 | 9554 | 9574 | 9595 | 9615 | 9636 | 9656 | 9677 | 9697 | 9718 | 9738 | |
| 412 | 9759 | 9779 | 9800 | 9820 | 9841 | 9861 | 9882 | 9902 | 9923 | 9944 | |
| 413 | 0.09 9964 | 9985 | 0005 | 0026 | 0046 | 0067 | 0088 | 0108 | 0129 | 0149 | |
| 414 | 0.10 0170 | 0190 | 0211 | 0232 | 0252 | 0273 | 0294 | 0314 | 0335 | 0355 | |
| 415 | 0376 | 0397 | 0417 | 0438 | 0459 | 0479 | 0500 | 0521 | 0541 | 0562 | |
| 416 | 0583 | 0603 | 0624 | 0645 | 0665 | 0686 | 0707 | 0727 | 0748 | 0769 | |
| 417 | 0790 | 0810 | 0831 | 0852 | 0872 | 0893 | 0914 | 0935 | 0955 | 0976 | |
| 418 | 0997 | 1018 | 1038 | 1059 | 1080 | 1101 | 1121 | 1142 | 1163 | 1184 | |
| 419 | 1205 | 1225 | 1246 | 1267 | 1288 | 1308 | 1329 | 1350 | 1371 | 1392 | |
| 9.420 | 0.10 1413 | 1433 | 1454 | 1475 | 1496 | 1517 | 1538 | 1558 | 1579 | 1600 | |
| 421 | 1621 | 1642 | 1663 | 1684 | 1704 | 1725 | 1746 | 1767 | 1788 | 1809 | |
| 422 | 1830 | 1851 | 1872 | 1893 | 1913 | 1934 | 1955 | 1976 | 1997 | 2018 | |
| 423 | 2039 | 2060 | 2081 | 2102 | 2123 | 2144 | 2165 | 2186 | 2207 | 2228 | |
| 424 | 2249 | 2270 | 2291 | 2312 | 2333 | 2354 | 2375 | 2396 | 2417 | 2438 | |
| 425 | 2459 | 2480 | 2501 | 2522 | 2543 | 2564 | 2585 | 2606 | 2627 | 2648 | |
| 426 | 2669 | 2690 | 2711 | 2732 | 2753 | 2774 | 2795 | 2816 | 2837 | 2859 | |
| 427 | 2880 | 2901 | 2922 | 2943 | 2964 | 2985 | 3006 | 3027 | 3049 | 3070 | |
| 428 | 3091 | 3112 | 3133 | 3154 | 3175 | 3196 | 3218 | 3239 | 3260 | 3281 | |
| 429 | 3302 | 3323 | 3345 | 3366 | 3387 | 3408 | 3429 | 3451 | 3472 | 3493 | |
| 9.430 | 0.10 3514 | 3535 | 3557 | 3578 | 3599 | 3620 | 3641 | 3663 | 3684 | 3705 | |
| 431 | 3726 | 3748 | 3769 | 3790 | 3811 | 3833 | 3854 | 3875 | 3897 | 3918 | |
| 432 | 3939 | 3960 | 3982 | 4003 | 4024 | 4046 | 4067 | 4088 | 4109 | 4131 | |
| 433 | 4152 | 4173 | 4195 | 4216 | 4237 | 4259 | 4280 | 4301 | 4323 | 4344 | |
| 434 | 4366 | 4387 | 4408 | 4430 | 4451 | 4472 | 4494 | 4515 | 4537 | 4558 | |
| 435 | 4579 | 4601 | 4622 | 4644 | 4665 | 4686 | 4708 | 4729 | 4751 | 4772 | |
| 436 | 4794 | 4815 | 4836 | 4858 | 4879 | 4901 | 4922 | 4944 | 4965 | 4987 | |
| 437 | 5008 | 5030 | 5051 | 5073 | 5094 | 5116 | 5137 | 5159 | 5180 | 5202 | |
| 438 | 5223 | 5245 | 5266 | 5288 | 5309 | 5331 | 5352 | 5374 | 5395 | 5417 | |
| 439 | 5438 | 5460 | 5482 | 5503 | 5525 | 5546 | 5568 | 5589 | 5611 | 5633 | |
| 9.440 | 0.10 5654 | 5676 | 5697 | 5719 | 5741 | 5762 | 5784 | 5805 | 5827 | 5849 | |
| 441 | 5870 | 5892 | 5914 | 5935 | 5957 | 5979 | 6000 | 6022 | 6044 | 6065 | |
| 442 | 6087 | 6109 | 6130 | 6152 | 6174 | 6195 | 6217 | 6239 | 6260 | 6282 | |
| 443 | 6304 | 6326 | 6347 | 6369 | 6391 | 6412 | 6434 | 6456 | 6478 | 6499 | |
| 444 | 6521 | 6543 | 6565 | 6586 | 6608 | 6630 | 6652 | 6673 | 6695 | 6717 | |
| 445 | 6739 | 6761 | 6782 | 6804 | 6826 | 6848 | 6870 | 6891 | 6913 | 6935 | |
| 446 | 6957 | 6979 | 7001 | 7022 | 7044 | 7066 | 7088 | 7110 | 7132 | 7154 | |
| 447 | 7175 | 7197 | 7219 | 7241 | 7263 | 7285 | 7307 | 7329 | 7350 | 7372 | |
| 448 | 7394 | 7416 | 7438 | 7460 | 7482 | 7504 | 7526 | 7548 | 7570 | 7592 | |
| 449 | 7614 | 7636 | 7657 | 7679 | 7701 | 7723 | 7745 | 7767 | 7789 | 7811 | |
| 9.450 | 0.10 7833 | 7855 | 7877 | 7899 | 7921 | 7943 | 7965 | 7987 | 8009 | 8031 | |
| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | |
| $\log (a + b) = \log a + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|---------|
| 9.450 | 0.10 | 7833 | 7855 | 7877 | 7899 | 7921 | 7943 | 7965 | 7987 | 8009 | 8031 | |
| 451 | | 8053 | 8075 | 8097 | 8119 | 8141 | 8163 | 8186 | 8208 | 8230 | 8252 | |
| 452 | | 8274 | 8296 | 8318 | 8340 | 8362 | 8384 | 8406 | 8428 | 8450 | 8473 | |
| 453 | | 8495 | 8517 | 8539 | 8561 | 8583 | 8605 | 8627 | 8649 | 8672 | 8694 | |
| 454 | | 8716 | 8738 | 8760 | 8782 | 8805 | 8827 | 8849 | 8871 | 8893 | 8915 | |
| 455 | | 8938 | 8960 | 8982 | 9004 | 9026 | 9049 | 9071 | 9093 | 9115 | 9137 | |
| 456 | | 9160 | 9182 | 9204 | 9226 | 9249 | 9271 | 9293 | 9315 | 9338 | 9360 | |
| 457 | | 9382 | 9404 | 9427 | 9449 | 9471 | 9493 | 9516 | 9538 | 9560 | 9583 | |
| 458 | | 9605 | 9627 | 9650 | 9672 | 9694 | 9716 | 9739 | 9761 | 9783 | 9806 | |
| 459 | 0.10 | 9828 | 9850 | 9873 | 9895 | 9918 | 9940 | 9962 | 9985 | 10007 | 10029 | 22 |
| 9.460 | 0.11 | 0052 | 0074 | 0097 | 0119 | 0141 | 0164 | 0186 | 0209 | 0231 | 0253 | 1. 2.2 |
| 461 | | 0276 | 0298 | 0321 | 0343 | 0366 | 0388 | 0410 | 0433 | 0455 | 0478 | 2. 4.4 |
| 462 | | 0500 | 0523 | 0545 | 0568 | 0590 | 0613 | 0635 | 0658 | 0680 | 0703 | 3. 6.6 |
| 463 | | 0725 | 0748 | 0770 | 0793 | 0815 | 0838 | 0860 | 0883 | 0905 | 0928 | 4. 8.8 |
| 464 | | 0950 | 0973 | 0995 | 1018 | 1041 | 1063 | 1086 | 1108 | 1131 | 1153 | 5. 11.0 |
| 465 | | 1176 | 1199 | 1221 | 1244 | 1266 | 1289 | 1312 | 1334 | 1357 | 1379 | 6. 13.2 |
| 466 | | 1402 | 1425 | 1447 | 1470 | 1493 | 1515 | 1538 | 1561 | 1583 | 1606 | 7. 15.4 |
| 467 | | 1629 | 1651 | 1674 | 1697 | 1719 | 1742 | 1765 | 1788 | 1810 | 1833 | 8. 17.6 |
| 468 | | 1855 | 1878 | 1901 | 1924 | 1946 | 1969 | 1992 | 2014 | 2037 | 2060 | 9. 19.8 |
| 469 | | 2083 | 2105 | 2128 | 2151 | 2174 | 2196 | 2219 | 2242 | 2265 | 2288 | |
| 9.470 | 0.11 | 2310 | 2333 | 2356 | 2379 | 2402 | 2424 | 2447 | 2470 | 2493 | 2516 | |
| 471 | | 2538 | 2561 | 2584 | 2607 | 2630 | 2653 | 2675 | 2698 | 2721 | 2744 | 23 |
| 472 | | 2767 | 2790 | 2813 | 2835 | 2858 | 2881 | 2904 | 2927 | 2950 | 2973 | 1. 2.3 |
| 473 | | 2996 | 3019 | 3042 | 3065 | 3087 | 3110 | 3133 | 3156 | 3179 | 3202 | 2. 4.6 |
| 474 | | 3225 | 3248 | 3271 | 3294 | 3317 | 3340 | 3363 | 3386 | 3409 | 3432 | 3. 6.9 |
| 475 | | 3455 | 3478 | 3501 | 3524 | 3547 | 3570 | 3593 | 3616 | 3639 | 3662 | 4. 9.2 |
| 476 | | 3685 | 3708 | 3731 | 3754 | 3777 | 3800 | 3823 | 3846 | 3869 | 3892 | 5. 11.5 |
| 477 | | 3915 | 3938 | 3962 | 3985 | 4008 | 4031 | 4054 | 4077 | 4100 | 4123 | 6. 13.8 |
| 478 | | 4146 | 4169 | 4193 | 4216 | 4239 | 4262 | 4285 | 4308 | 4331 | 4354 | 7. 16.1 |
| 479 | | 4378 | 4401 | 4424 | 4447 | 4470 | 4493 | 4517 | 4540 | 4563 | 4586 | 8. 18.4 |
| 9.480 | 0.11 | 4609 | 4633 | 4656 | 4679 | 4702 | 4725 | 4749 | 4772 | 4795 | 4818 | 9. 20.7 |
| 481 | | 4842 | 4865 | 4888 | 4911 | 4935 | 4958 | 4981 | 5004 | 5028 | 5051 | |
| 482 | | 5074 | 5097 | 5121 | 5144 | 5167 | 5191 | 5214 | 5237 | 5260 | 5284 | |
| 483 | | 5307 | 5330 | 5354 | 5377 | 5400 | 5424 | 5447 | 5470 | 5494 | 5517 | |
| 484 | | 5540 | 5564 | 5587 | 5611 | 5634 | 5657 | 5681 | 5704 | 5727 | 5751 | |
| 485 | | 5774 | 5798 | 5821 | 5844 | 5868 | 5891 | 5915 | 5938 | 5962 | 5985 | 24 |
| 486 | | 6008 | 6032 | 6055 | 6079 | 6102 | 6126 | 6149 | 6173 | 6196 | 6220 | 1. 2.4 |
| 487 | | 6243 | 6267 | 6290 | 6314 | 6337 | 6361 | 6384 | 6408 | 6431 | 6455 | 2. 4.8 |
| 488 | | 6478 | 6502 | 6525 | 6549 | 6572 | 6596 | 6619 | 6643 | 6666 | 6690 | 3. 7.2 |
| 489 | | 6714 | 6737 | 6761 | 6784 | 6808 | 6831 | 6855 | 6879 | 6902 | 6926 | 4. 9.6 |
| 9.490 | 0.11 | 6949 | 6973 | 6997 | 7020 | 7044 | 7068 | 7091 | 7115 | 7138 | 7162 | 5. 12.0 |
| 491 | | 7186 | 7209 | 7233 | 7257 | 7280 | 7304 | 7328 | 7351 | 7375 | 7399 | 6. 14.4 |
| 492 | | 7422 | 7446 | 7470 | 7494 | 7517 | 7541 | 7565 | 7588 | 7612 | 7636 | 7. 16.8 |
| 493 | | 7660 | 7683 | 7707 | 7731 | 7755 | 7778 | 7802 | 7826 | 7850 | 7873 | 8. 19.2 |
| 494 | | 7897 | 7921 | 7945 | 7968 | 7992 | 8016 | 8040 | 8064 | 8087 | 8111 | 9. 21.6 |
| 495 | | 8135 | 8159 | 8183 | 8206 | 8230 | 8254 | 8278 | 8302 | 8326 | 8350 | |
| 496 | | 8373 | 8397 | 8421 | 8445 | 8469 | 8493 | 8517 | 8540 | 8564 | 8588 | |
| 497 | | 8612 | 8636 | 8660 | 8684 | 8708 | 8732 | 8756 | 8780 | 8804 | 8827 | |
| 498 | | 8851 | 8875 | 8899 | 8923 | 8947 | 8971 | 8995 | 9019 | 9043 | 9067 | |
| 499 | | 9091 | 9115 | 9139 | 9163 | 9187 | 9211 | 9235 | 9259 | 9283 | 9307 | |
| 9.500 | 0.11 | 9331 | 9355 | 9379 | 9403 | 9427 | 9451 | 9475 | 9499 | 9523 | 9547 | |

$$\log b - \log a = A$$

$$\log(a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log(a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|--------|
| 9.500 | 0.11 9331 | 9355 | 9379 | 9403 | 9427 | 9451 | 9475 | 9499 | 9523 | 9547 | |
| 501 | 9572 | 9596 | 9620 | 9644 | 9668 | 9692 | 9716 | 9740 | 9764 | 9788 | |
| 502 | 0.11 9812 | 9837 | 9861 | 9885 | 9909 | 9933 | 9957 | 9981 | 0005 | 0030 | |
| 503 | 0.12 0054 | 0078 | 0102 | 0126 | 0150 | 0175 | 0199 | 0223 | 0247 | 0271 | |
| 504 | 0295 | 0320 | 0344 | 0368 | 0392 | 0416 | 0441 | 0465 | 0489 | 0513 | 24 |
| 505 | 0538 | 0562 | 0586 | 0610 | 0635 | 0659 | 0683 | 0707 | 0732 | 0756 | 1 2.4 |
| 506 | 0780 | 0804 | 0829 | 0853 | 0877 | 0902 | 0926 | 0950 | 0975 | 0999 | 2 4.8 |
| 507 | 1023 | 1047 | 1072 | 1096 | 1120 | 1145 | 1169 | 1193 | 1218 | 1242 | 3 7.2 |
| 508 | 1267 | 1291 | 1315 | 1340 | 1364 | 1388 | 1413 | 1437 | 1462 | 1486 | 4 9.6 |
| 509 | 1510 | 1535 | 1559 | 1584 | 1608 | 1632 | 1657 | 1681 | 1706 | 1730 | 5 12.0 |
| 9.510 | 0.12 1755 | 1779 | 1804 | 1828 | 1853 | 1877 | 1901 | 1926 | 1950 | 1975 | 6 14.4 |
| 511 | 1999 | 2024 | 2048 | 2073 | 2097 | 2122 | 2146 | 2171 | 2195 | 2220 | 7 16.8 |
| 512 | 2244 | 2269 | 2294 | 2318 | 2343 | 2367 | 2392 | 2416 | 2441 | 2465 | 8 19.2 |
| 513 | 2490 | 2515 | 2539 | 2564 | 2588 | 2613 | 2638 | 2662 | 2687 | 2711 | 9 21.6 |
| 514 | 2736 | 2761 | 2785 | 2810 | 2835 | 2859 | 2884 | 2908 | 2933 | 2958 | |
| 515 | 2982 | 3007 | 3032 | 3056 | 3081 | 3106 | 3130 | 3155 | 3180 | 3205 | 25 |
| 516 | 3229 | 3254 | 3279 | 3303 | 3328 | 3353 | 3378 | 3402 | 3427 | 3452 | 1 2.5 |
| 517 | 3476 | 3501 | 3526 | 3551 | 3576 | 3600 | 3625 | 3650 | 3675 | 3699 | 2 5.0 |
| 518 | 3724 | 3749 | 3774 | 3799 | 3823 | 3848 | 3873 | 3898 | 3923 | 3947 | 3 7.5 |
| 519 | 3972 | 3997 | 4022 | 4047 | 4072 | 4097 | 4121 | 4146 | 4171 | 4196 | 4 10.0 |
| 9.520 | 0.12 4221 | 4246 | 4271 | 4295 | 4320 | 4345 | 4370 | 4395 | 4420 | 4445 | 5 12.5 |
| 521 | 4470 | 4495 | 4520 | 4545 | 4570 | 4594 | 4619 | 4644 | 4669 | 4694 | 6 15.0 |
| 522 | 4719 | 4744 | 4769 | 4794 | 4819 | 4844 | 4869 | 4894 | 4919 | 4944 | 7 17.5 |
| 523 | 4969 | 4994 | 5019 | 5044 | 5069 | 5094 | 5119 | 5144 | 5169 | 5194 | 8 20.0 |
| 524 | 5219 | 5244 | 5269 | 5294 | 5320 | 5345 | 5370 | 5395 | 5420 | 5445 | 9 22.5 |
| 525 | 5470 | 5495 | 5520 | 5545 | 5570 | 5595 | 5621 | 5646 | 5671 | 5696 | |
| 526 | 5721 | 5746 | 5771 | 5797 | 5822 | 5847 | 5872 | 5897 | 5922 | 5948 | |
| 527 | 5973 | 5998 | 6023 | 6048 | 6073 | 6099 | 6124 | 6149 | 6174 | 6200 | 26 |
| 528 | 6225 | 6250 | 6275 | 6300 | 6326 | 6351 | 6376 | 6401 | 6427 | 6452 | 1 2.6 |
| 529 | 6477 | 6502 | 6528 | 6553 | 6578 | 6604 | 6629 | 6654 | 6679 | 6705 | 2 5.2 |
| 9.530 | 0.12 6730 | 6755 | 6781 | 6806 | 6831 | 6857 | 6882 | 6907 | 6933 | 6958 | 3 7.8 |
| 531 | 6983 | 7009 | 7034 | 7059 | 7085 | 7110 | 7136 | 7161 | 7186 | 7212 | 4 10.4 |
| 532 | 7237 | 7262 | 7288 | 7313 | 7339 | 7364 | 7390 | 7415 | 7440 | 7466 | 5 13.0 |
| 533 | 7491 | 7517 | 7542 | 7568 | 7593 | 7619 | 7644 | 7669 | 7695 | 7720 | 6 15.6 |
| 534 | 7746 | 7771 | 7797 | 7822 | 7848 | 7873 | 7899 | 7924 | 7950 | 7975 | 7 18.2 |
| 535 | 8001 | 8026 | 8052 | 8078 | 8103 | 8129 | 8154 | 8180 | 8205 | 8231 | 8 20.8 |
| 536 | 8256 | 8282 | 8308 | 8333 | 8359 | 8384 | 8410 | 8436 | 8461 | 8487 | 9 23.4 |
| 537 | 8512 | 8538 | 8564 | 8589 | 8615 | 8640 | 8666 | 8692 | 8717 | 8743 | |
| 538 | 8769 | 8794 | 8820 | 8846 | 8871 | 8897 | 8923 | 8948 | 8974 | 9000 | |
| 539 | 9025 | 9051 | 9077 | 9103 | 9128 | 9154 | 9180 | 9206 | 9231 | 9257 | 27 |
| 9.540 | 0.12 9283 | 9308 | 9334 | 9360 | 9386 | 9412 | 9437 | 9463 | 9489 | 9515 | 1 2.7 |
| 541 | 9540 | 9566 | 9592 | 9618 | 9644 | 9669 | 9695 | 9721 | 9747 | 9773 | 2 5.4 |
| 542 | 0.12 9799 | 9824 | 9850 | 9876 | 9902 | 9928 | 9954 | 9980 | 0005 | 0031 | 3 8.1 |
| 543 | 0.13 0057 | 0083 | 0109 | 0135 | 0161 | 0187 | 0212 | 0238 | 0264 | 0290 | 4 10.8 |
| 544 | 0316 | 0342 | 0368 | 0394 | 0420 | 0446 | 0472 | 0498 | 0524 | 0550 | 5 13.5 |
| 545 | 0576 | 0602 | 0628 | 0654 | 0679 | 0705 | 0731 | 0757 | 0783 | 0809 | 6 16.2 |
| 546 | 0835 | 0861 | 0888 | 0914 | 0940 | 0966 | 0992 | 1018 | 1044 | 1070 | 7 18.9 |
| 547 | 1096 | 1122 | 1148 | 1174 | 1200 | 1226 | 1252 | 1278 | 1304 | 1330 | 8 21.6 |
| 548 | 1357 | 1383 | 1409 | 1435 | 1461 | 1487 | 1513 | 1539 | 1565 | 1592 | 9 24.3 |
| 549 | 1618 | 1644 | 1670 | 1696 | 1722 | 1749 | 1775 | 1801 | 1827 | 1853 | |
| 9.550 | 0.13 1879 | 1906 | 1932 | 1958 | 1984 | 2010 | 2037 | 2063 | 2089 | 2115 | |

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 9.550 | 0.13 | 1879 | 1906 | 1932 | 1958 | 1984 | 2010 | 2037 | 2063 | 2089 | 2115 | |
| 551 | | 2142 | 2168 | 2194 | 2220 | 2247 | 2273 | 2299 | 2325 | 2352 | 2378 | |
| 552 | | 2404 | 2430 | 2457 | 2483 | 2509 | 2536 | 2562 | 2588 | 2615 | 2641 | |
| 553 | | 2667 | 2693 | 2720 | 2746 | 2772 | 2799 | 2825 | 2852 | 2878 | 2904 | |
| 554 | | 2931 | 2957 | 2983 | 3010 | 3036 | 3063 | 3089 | 3115 | 3142 | 3168 | 1 2.6 |
| 555 | | 3195 | 3221 | 3247 | 3274 | 3300 | 3327 | 3353 | 3380 | 3406 | 3432 | 2 5.2 |
| 556 | | 3459 | 3485 | 3512 | 3538 | 3565 | 3591 | 3618 | 3644 | 3671 | 3697 | 3 7.8 |
| 557 | | 3724 | 3750 | 3777 | 3803 | 3830 | 3856 | 3883 | 3909 | 3936 | 3962 | 4 10.4 |
| 558 | | 3989 | 4015 | 4042 | 4069 | 4095 | 4122 | 4148 | 4175 | 4201 | 4228 | 5 13.0 |
| 559 | | 4255 | 4281 | 4308 | 4334 | 4361 | 4388 | 4414 | 4441 | 4467 | 4494 | 6 15.6 |
| 9.560 | 0.13 | 4521 | 4547 | 4574 | 4601 | 4627 | 4654 | 4681 | 4707 | 4734 | 4761 | 7 18.2 |
| 561 | | 4787 | 4814 | 4841 | 4867 | 4894 | 4921 | 4947 | 4974 | 5001 | 5028 | 8 22.8 |
| 562 | | 5054 | 5081 | 5108 | 5135 | 5161 | 5188 | 5215 | 5242 | 5268 | 5295 | 9 23.4 |
| 563 | | 5322 | 5349 | 5375 | 5402 | 5429 | 5456 | 5483 | 5509 | 5536 | 5563 | |
| 564 | | 5590 | 5617 | 5643 | 5670 | 5697 | 5724 | 5751 | 5778 | 5804 | 5831 | |
| 565 | | 5858 | 5885 | 5912 | 5939 | 5966 | 5993 | 6019 | 6046 | 6073 | 6100 | 1 2.7 |
| 566 | | 6127 | 6154 | 6181 | 6208 | 6235 | 6262 | 6289 | 6316 | 6342 | 6369 | 2 5.4 |
| 567 | | 6396 | 6423 | 6450 | 6477 | 6504 | 6531 | 6558 | 6585 | 6612 | 6639 | 3 8.1 |
| 568 | | 6666 | 6693 | 6720 | 6747 | 6774 | 6801 | 6828 | 6855 | 6882 | 6909 | 4 10.8 |
| 569 | | 6936 | 6963 | 6990 | 7017 | 7045 | 7072 | 7099 | 7126 | 7153 | 7180 | 5 13.5 |
| 9.570 | 0.13 | 7207 | 7234 | 7261 | 7288 | 7315 | 7342 | 7370 | 7397 | 7424 | 7451 | 6 16.2 |
| 571 | | 7478 | 7505 | 7532 | 7560 | 7587 | 7614 | 7641 | 7668 | 7695 | 7722 | 7 18.9 |
| 572 | | 7750 | 7777 | 7804 | 7831 | 7858 | 7886 | 7913 | 7940 | 7967 | 7994 | 8 21.6 |
| 573 | | 8022 | 8049 | 8076 | 8103 | 8131 | 8158 | 8185 | 8212 | 8240 | 8267 | 9 24.3 |
| 574 | | 8294 | 8321 | 8349 | 8376 | 8403 | 8431 | 8458 | 8485 | 8512 | 8540 | |
| 575 | | 8567 | 8594 | 8622 | 8649 | 8676 | 8704 | 8731 | 8758 | 8786 | 8813 | |
| 576 | | 8841 | 8868 | 8895 | 8923 | 8950 | 8977 | 9005 | 9032 | 9060 | 9087 | |
| 577 | | 9114 | 9142 | 9169 | 9197 | 9224 | 9251 | 9279 | 9306 | 9334 | 9361 | 1 2.8 |
| 578 | | 9389 | 9416 | 9444 | 9471 | 9499 | 9526 | 9553 | 9581 | 9608 | 9636 | 2 5.6 |
| 579 | | 9663 | 9691 | 9718 | 9746 | 9773 | 9801 | 9829 | 9856 | 9884 | 9911 | 3 8.4 |
| 9.580 | 0.13 | 9939 | 9966 | 9994 | 0021 | 0049 | 0076 | 0104 | 0132 | 0159 | 0187 | 4 11.2 |
| 581 | 0.14 | 0214 | 0242 | 0270 | 0297 | 0325 | 0352 | 0380 | 0408 | 0435 | 0463 | 5 14.0 |
| 582 | | 0491 | 0518 | 0546 | 0573 | 0601 | 0629 | 0656 | 0684 | 0712 | 0739 | 6 16.8 |
| 583 | | 0767 | 0795 | 0823 | 0850 | 0878 | 0906 | 0933 | 0961 | 0989 | 1016 | 7 19.6 |
| 584 | | 1044 | 1072 | 1100 | 1127 | 1155 | 1183 | 1211 | 1238 | 1266 | 1294 | 8 22.4 |
| 585 | | 1322 | 1350 | 1377 | 1405 | 1433 | 1461 | 1488 | 1516 | 1544 | 1572 | 9 25.2 |
| 586 | | 1600 | 1628 | 1655 | 1683 | 1711 | 1739 | 1767 | 1795 | 1822 | 1850 | |
| 587 | | 1878 | 1906 | 1934 | 1962 | 1990 | 2018 | 2046 | 2073 | 2101 | 2129 | |
| 588 | | 2157 | 2185 | 2213 | 2241 | 2269 | 2297 | 2325 | 2353 | 2381 | 2409 | |
| 589 | | 2437 | 2464 | 2492 | 2520 | 2548 | 2576 | 2604 | 2632 | 2660 | 2688 | 1 2.9 |
| 9.590 | 0.14 | 2716 | 2744 | 2772 | 2800 | 2828 | 2856 | 2884 | 2913 | 2941 | 2969 | 2 5.8 |
| 591 | | 2997 | 3025 | 3053 | 3081 | 3109 | 3137 | 3165 | 3193 | 3221 | 3249 | 3 8.7 |
| 592 | | 3277 | 3306 | 3334 | 3362 | 3390 | 3418 | 3446 | 3474 | 3502 | 3531 | 4 11.6 |
| 593 | | 3559 | 3587 | 3615 | 3643 | 3671 | 3699 | 3728 | 3756 | 3784 | 3812 | 5 14.5 |
| 594 | | 3840 | 3869 | 3897 | 3925 | 3953 | 3981 | 4010 | 4038 | 4066 | 4094 | 6 17.4 |
| 595 | | 4123 | 4151 | 4179 | 4207 | 4236 | 4264 | 4292 | 4320 | 4349 | 4377 | 7 20.3 |
| 596 | | 4405 | 4434 | 4462 | 4490 | 4518 | 4547 | 4575 | 4603 | 4632 | 4660 | 8 23.2 |
| 597 | | 4688 | 4717 | 4745 | 4773 | 4802 | 4830 | 4858 | 4887 | 4915 | 4944 | 9 26.1 |
| 598 | | 4972 | 5000 | 5029 | 5057 | 5085 | 5114 | 5142 | 5171 | 5199 | 5228 | |
| 599 | | 5256 | 5284 | 5313 | 5341 | 5370 | 5398 | 5427 | 5455 | 5484 | 5512 | |
| 9.600 | 0.14 | 5540 | 5569 | 5597 | 5626 | 5654 | 5683 | 5711 | 5740 | 5768 | 5797 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log b - \log a = A \quad \log a - \log b = B$$

$$\log(a + b) = \log a + B \quad \log(a - b) = \log b + A$$

ADDITIONS - UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--------------------------|-----------|------|------|------|------|--------------------------|------|------|------|------|--------|
| 9.600 | 0.14 5540 | 5569 | 5597 | 5626 | 5654 | 5683 | 5711 | 5740 | 5768 | 5797 | |
| 601 | 5825 | 5854 | 5882 | 5911 | 5940 | 5968 | 5997 | 6025 | 6054 | 6082 | |
| 602 | 6111 | 6139 | 6168 | 6197 | 6225 | 6254 | 6283 | 6311 | 6340 | 6368 | |
| 603 | 6397 | 6425 | 6454 | 6483 | 6511 | 6540 | 6569 | 6597 | 6626 | 6655 | |
| 604 | 6683 | 6712 | 6741 | 6769 | 6798 | 6827 | 6855 | 6884 | 6913 | 6941 | 28 |
| 605 | 6970 | 6999 | 7028 | 7056 | 7085 | 7114 | 7142 | 7171 | 7200 | 7229 | 1 2.8 |
| 606 | 7257 | 7286 | 7315 | 7344 | 7372 | 7401 | 7430 | 7459 | 7488 | 7516 | 2 5.6 |
| 607 | 7545 | 7574 | 7603 | 7632 | 7660 | 7689 | 7718 | 7747 | 7776 | 7805 | 3 8.4 |
| 608 | 7833 | 7862 | 7891 | 7920 | 7949 | 7978 | 8007 | 8036 | 8064 | 8093 | 4 11.2 |
| 609 | 8122 | 8151 | 8180 | 8209 | 8238 | 8267 | 8296 | 8325 | 8354 | 8383 | 5 14.0 |
| 9.610 | 0.14 8411 | 8440 | 8469 | 8498 | 8527 | 8556 | 8585 | 8614 | 8643 | 8672 | 6 16.8 |
| 611 | 8701 | 8730 | 8759 | 8788 | 8817 | 8846 | 8875 | 8904 | 8933 | 8962 | 7 19.6 |
| 612 | 8991 | 9020 | 9049 | 9078 | 9108 | 9137 | 9166 | 9195 | 9224 | 9253 | 8 22.4 |
| 613 | 9282 | 9311 | 9340 | 9369 | 9398 | 9427 | 9457 | 9486 | 9515 | 9544 | 9 25.2 |
| 614 | 9573 | 9602 | 9631 | 9661 | 9690 | 9719 | 9748 | 9777 | 9806 | 9836 | |
| 615 | 0.14 9865 | 9894 | 9923 | 9952 | 9981 | 0011 | 0040 | 0069 | 0098 | 0128 | |
| 616 | 0.15 0157 | 0186 | 0215 | 0244 | 0274 | 0303 | 0332 | 0361 | 0391 | 0420 | 29 |
| 617 | 0449 | 0479 | 0508 | 0537 | 0566 | 0596 | 0625 | 0654 | 0684 | 0713 | 1 2.9 |
| 618 | 0742 | 0772 | 0801 | 0830 | 0860 | 0889 | 0918 | 0948 | 0977 | 1006 | 2 5.8 |
| 619 | 1036 | 1065 | 1095 | 1124 | 1153 | 1183 | 1212 | 1242 | 1271 | 1300 | 3 8.7 |
| 9.620 | 0.15 1330 | 1359 | 1389 | 1418 | 1448 | 1477 | 1506 | 1536 | 1565 | 1595 | 4 11.6 |
| 621 | 1624 | 1654 | 1683 | 1713 | 1742 | 1772 | 1801 | 1831 | 1860 | 1890 | 5 14.5 |
| 622 | 1919 | 1949 | 1978 | 2008 | 2037 | 2067 | 2096 | 2126 | 2155 | 2185 | 6 17.4 |
| 623 | 2215 | 2244 | 2274 | 2303 | 2333 | 2363 | 2392 | 2422 | 2451 | 2481 | 7 20.3 |
| 624 | 2511 | 2540 | 2570 | 2599 | 2629 | 2659 | 2688 | 2718 | 2748 | 2777 | 8 23.2 |
| 625 | 2807 | 2837 | 2866 | 2896 | 2926 | 2955 | 2985 | 3015 | 3044 | 3074 | 9 26.1 |
| 626 | 3104 | 3134 | 3163 | 3193 | 3223 | 3252 | 3282 | 3312 | 3342 | 3371 | |
| 627 | 3401 | 3431 | 3461 | 3490 | 3520 | 3550 | 3580 | 3610 | 3639 | 3669 | 30 |
| 628 | 3699 | 3729 | 3759 | 3788 | 3818 | 3848 | 3878 | 3908 | 3938 | 3967 | 1 3.0 |
| 629 | 3997 | 4027 | 4057 | 4087 | 4117 | 4147 | 4176 | 4206 | 4236 | 4266 | 2 6.0 |
| 9.630 | 0.15 4296 | 4326 | 4356 | 4386 | 4416 | 4446 | 4475 | 4505 | 4535 | 4565 | 3 9.0 |
| 631 | 4595 | 4625 | 4655 | 4685 | 4715 | 4745 | 4775 | 4805 | 4835 | 4865 | 4 12.0 |
| 632 | 4895 | 4925 | 4955 | 4985 | 5015 | 5045 | 5075 | 5105 | 5135 | 5165 | 5 15.0 |
| 633 | 5195 | 5225 | 5255 | 5285 | 5315 | 5346 | 5376 | 5406 | 5436 | 5466 | 6 18.0 |
| 634 | 5496 | 5526 | 5556 | 5586 | 5616 | 5646 | 5677 | 5707 | 5737 | 5767 | 7 21.0 |
| 635 | 5797 | 5827 | 5857 | 5888 | 5918 | 5948 | 5978 | 6008 | 6038 | 6069 | 8 24.0 |
| 636 | 6099 | 6129 | 6159 | 6189 | 6220 | 6250 | 6280 | 6310 | 6341 | 6371 | 9 27.0 |
| 637 | 6401 | 6431 | 6461 | 6492 | 6522 | 6552 | 6583 | 6613 | 6643 | 6673 | |
| 638 | 6704 | 6734 | 6764 | 6795 | 6825 | 6855 | 6885 | 6916 | 6946 | 6976 | |
| 639 | 7007 | 7037 | 7067 | 7098 | 7128 | 7159 | 7189 | 7219 | 7250 | 7280 | 31 |
| 9.640 | 0.15 7310 | 7341 | 7371 | 7402 | 7432 | 7462 | 7493 | 7523 | 7554 | 7584 | 1 3.1 |
| 641 | 7615 | 7645 | 7675 | 7706 | 7736 | 7767 | 7797 | 7828 | 7858 | 7889 | 2 6.2 |
| 642 | 7919 | 7950 | 7980 | 8011 | 8041 | 8072 | 8102 | 8133 | 8163 | 8194 | 3 9.3 |
| 643 | 8224 | 8255 | 8285 | 8316 | 8346 | 8377 | 8408 | 8438 | 8469 | 8499 | 4 12.4 |
| 644 | 8530 | 8560 | 8591 | 8622 | 8652 | 8683 | 8713 | 8744 | 8775 | 8805 | 5 15.5 |
| 645 | 8836 | 8867 | 8897 | 8928 | 8958 | 8989 | 9020 | 9050 | 9081 | 9112 | 6 18.6 |
| 646 | 9142 | 9173 | 9204 | 9234 | 9265 | 9296 | 9327 | 9357 | 9388 | 9419 | 7 21.7 |
| 647 | 9449 | 9480 | 9511 | 9542 | 9572 | 9603 | 9634 | 9665 | 9695 | 9726 | 8 24.8 |
| 648 | 0.15 9757 | 9788 | 9819 | 9849 | 9880 | 9911 | 9942 | 9973 | 0003 | 0034 | 9 27.9 |
| 649 | 0.16 0065 | 0096 | 0127 | 0158 | 0188 | 0219 | 0250 | 0281 | 0312 | 0343 | |
| 9.650 | 0.16 0374 | 0404 | 0435 | 0466 | 0497 | 0528 | 0559 | 0590 | 0621 | 0652 | |
| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ | | | | | | $\log a - \log b = B$ | | | | | |
| $\log(a+b) = \log a + B$ | | | | | | $\log(a-b) = \log b + A$ | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|--------|
| 9.650 | 0.16 | 0374 | 0404 | 0435 | 0466 | 0497 | 0528 | 0559 | 0590 | 0621 | 0652 | |
| 651 | | 0683 | 0713 | 0744 | 0775 | 0806 | 0837 | 0868 | 0899 | 0930 | 0961 | 30 |
| 652 | | 0992 | 1023 | 1054 | 1085 | 1116 | 1147 | 1178 | 1209 | 1240 | 1271 | 1 3.0 |
| 653 | | 1302 | 1333 | 1364 | 1395 | 1426 | 1457 | 1488 | 1519 | 1550 | 1581 | 2 6.0 |
| 654 | | 1613 | 1644 | 1675 | 1706 | 1737 | 1768 | 1799 | 1830 | 1861 | 1892 | 3 9.0 |
| 655 | | 1924 | 1955 | 1986 | 2017 | 2048 | 2079 | 2110 | 2142 | 2173 | 2204 | 4 12.0 |
| 656 | | 2235 | 2266 | 2297 | 2329 | 2360 | 2391 | 2422 | 2453 | 2485 | 2516 | 5 15.0 |
| 657 | | 2547 | 2578 | 2609 | 2641 | 2672 | 2703 | 2734 | 2766 | 2797 | 2828 | 6 18.0 |
| 658 | | 2859 | 2891 | 2922 | 2953 | 2985 | 3016 | 3047 | 3078 | 3110 | 3141 | 7 21.0 |
| 659 | | 3172 | 3204 | 3235 | 3266 | 3298 | 3329 | 3360 | 3392 | 3423 | 3454 | 8 24.0 |
| 9.660 | 0.16 | 3486 | 3517 | 3549 | 3580 | 3611 | 3643 | 3674 | 3706 | 3737 | 3768 | 9 27.0 |
| 661 | | 3800 | 3831 | 3863 | 3894 | 3926 | 3957 | 3988 | 4020 | 4051 | 4083 | 31 |
| 662 | | 4114 | 4146 | 4177 | 4209 | 4240 | 4272 | 4303 | 4335 | 4366 | 4398 | 1 3.1 |
| 663 | | 4429 | 4461 | 4492 | 4524 | 4555 | 4587 | 4618 | 4650 | 4681 | 4713 | 2 6.2 |
| 664 | | 4745 | 4776 | 4808 | 4839 | 4871 | 4903 | 4934 | 4966 | 4997 | 5029 | 3 9.3 |
| 665 | | 5061 | 5092 | 5124 | 5155 | 5187 | 5219 | 5250 | 5282 | 5314 | 5345 | 4 12.4 |
| 666 | | 5377 | 5409 | 5440 | 5472 | 5504 | 5535 | 5567 | 5599 | 5630 | 5662 | 5 15.5 |
| 667 | | 5694 | 5726 | 5757 | 5789 | 5821 | 5853 | 5884 | 5916 | 5948 | 5980 | 6 18.6 |
| 668 | | 6011 | 6043 | 6075 | 6107 | 6138 | 6170 | 6202 | 6234 | 6266 | 6297 | 7 21.7 |
| 669 | | 6329 | 6361 | 6393 | 6425 | 6457 | 6488 | 6520 | 6552 | 6584 | 6616 | 8 24.8 |
| 9.670 | 0.16 | 6648 | 6680 | 6711 | 6743 | 6775 | 6807 | 6839 | 6871 | 6903 | 6935 | 9 27.9 |
| 671 | | 6967 | 6999 | 7030 | 7062 | 7094 | 7126 | 7158 | 7190 | 7222 | 7254 | 32 |
| 672 | | 7286 | 7318 | 7350 | 7382 | 7414 | 7446 | 7478 | 7510 | 7542 | 7574 | 1 3.2 |
| 673 | | 7606 | 7638 | 7670 | 7702 | 7734 | 7766 | 7798 | 7830 | 7862 | 7894 | 2 6.4 |
| 674 | | 7926 | 7958 | 7991 | 8023 | 8055 | 8087 | 8119 | 8151 | 8183 | 8215 | 3 9.6 |
| 675 | | 8247 | 8279 | 8312 | 8344 | 8376 | 8408 | 8440 | 8472 | 8504 | 8537 | 4 12.8 |
| 676 | | 8569 | 8601 | 8633 | 8665 | 8697 | 8730 | 8762 | 8794 | 8826 | 8858 | 5 16.0 |
| 677 | | 8891 | 8923 | 8955 | 8987 | 9020 | 9052 | 9084 | 9116 | 9149 | 9181 | 6 19.2 |
| 678 | | 9213 | 9245 | 9278 | 9310 | 9342 | 9375 | 9407 | 9439 | 9471 | 9504 | 7 22.4 |
| 679 | | 9536 | 9568 | 9601 | 9633 | 9665 | 9698 | 9730 | 9762 | 9795 | 9827 | 8 25.6 |
| 9.680 | 0.16 | 9860 | 9892 | 9924 | 9957 | 9989 | 10021 | 10054 | 10086 | 10119 | 10151 | 9 28.8 |
| 681 | 0.17 | 0183 | 0216 | 0248 | 0281 | 0313 | 0346 | 0378 | 0411 | 0443 | 0475 | 33 |
| 682 | | 0508 | 0540 | 0573 | 0605 | 0638 | 0670 | 0703 | 0735 | 0768 | 0800 | 1 3.3 |
| 683 | | 0833 | 0865 | 0898 | 0930 | 0963 | 0996 | 1028 | 1061 | 1093 | 1126 | 2 6.6 |
| 684 | | 1158 | 1191 | 1224 | 1256 | 1289 | 1322 | 1354 | 1386 | 1419 | 1452 | 3 9.9 |
| 685 | | 1484 | 1517 | 1550 | 1582 | 1615 | 1648 | 1680 | 1713 | 1745 | 1778 | 4 13.2 |
| 686 | | 1811 | 1843 | 1876 | 1909 | 1942 | 1974 | 2007 | 2040 | 2072 | 2105 | 5 16.5 |
| 687 | | 2138 | 2171 | 2203 | 2236 | 2269 | 2301 | 2334 | 2367 | 2400 | 2433 | 6 19.8 |
| 688 | | 2465 | 2498 | 2531 | 2564 | 2596 | 2629 | 2662 | 2695 | 2728 | 2760 | 7 23.1 |
| 689 | | 2793 | 2826 | 2859 | 2892 | 2925 | 2957 | 2990 | 3023 | 3056 | 3089 | 8 26.4 |
| 9.690 | 0.17 | 3122 | 3155 | 3188 | 3220 | 3253 | 3286 | 3319 | 3352 | 3385 | 3418 | 9 29.7 |
| 691 | | 3451 | 3484 | 3517 | 3550 | 3583 | 3616 | 3648 | 3681 | 3714 | 3747 | 34 |
| 692 | | 3780 | 3813 | 3846 | 3879 | 3912 | 3945 | 3978 | 4011 | 4044 | 4077 | 1 3.4 |
| 693 | | 4110 | 4143 | 4176 | 4209 | 4243 | 4276 | 4309 | 4342 | 4375 | 4408 | 2 6.8 |
| 694 | | 4441 | 4474 | 4507 | 4540 | 4573 | 4606 | 4639 | 4673 | 4706 | 4739 | 3 10.2 |
| 695 | | 4772 | 4805 | 4838 | 4871 | 4905 | 4938 | 4971 | 5004 | 5037 | 5070 | 4 13.6 |
| 696 | | 5104 | 5137 | 5170 | 5203 | 5236 | 5269 | 5303 | 5336 | 5369 | 5402 | 5 17.0 |
| 697 | | 5436 | 5469 | 5502 | 5535 | 5569 | 5602 | 5635 | 5668 | 5702 | 5735 | 6 20.4 |
| 698 | | 5768 | 5801 | 5835 | 5868 | 5901 | 5935 | 5968 | 6001 | 6035 | 6068 | 7 23.8 |
| 699 | | 6101 | 6135 | 6168 | 6201 | 6235 | 6268 | 6301 | 6335 | 6368 | 6401 | 8 27.2 |
| 9.700 | 0.17 | 6435 | 6468 | 6502 | 6535 | 6568 | 6602 | 6635 | 6669 | 6702 | 6736 | 9 30.6 |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | FP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 9.700 | 0.17 | 6435 | 6468 | 6502 | 6535 | 6568 | 6602 | 6635 | 6669 | 6702 | 6736 | |
| 701 | | 6769 | 6802 | 6836 | 6869 | 6903 | 6936 | 6970 | 7003 | 7037 | 7070 | |
| 702 | | 7104 | 7137 | 7171 | 7204 | 7238 | 7271 | 7305 | 7338 | 7372 | 7405 | |
| 703 | | 7439 | 7472 | 7506 | 7539 | 7573 | 7606 | 7640 | 7674 | 7707 | 7741 | |
| 704 | | 7774 | 7808 | 7842 | 7875 | 7909 | 7942 | 7976 | 8010 | 8043 | 8077 | 33 |
| 705 | | 8111 | 8144 | 8178 | 8212 | 8245 | 8279 | 8313 | 8346 | 8380 | 8414 | 1 3.3 |
| 706 | | 8447 | 8481 | 8515 | 8548 | 8582 | 8616 | 8650 | 8683 | 8717 | 8751 | 2 6.6 |
| 707 | | 8-84 | 88-3 | 8852 | 8886 | 8919 | 8953 | 8987 | 9021 | 9055 | 9088 | 3 9.9 |
| 708 | | 9122 | 9156 | 9190 | 9224 | 9257 | 9291 | 9325 | 9359 | 9393 | 9427 | 4 13.2 |
| 709 | | 9400 | 9434 | 9468 | 9502 | 9536 | 9570 | 9604 | 9638 | 9672 | 9706 | 5 16.5 |
| 9.710 | 0.17 | 9799 | 9833 | 9867 | 9901 | 9935 | 9969 | 0003 | 0037 | 0071 | 0104 | 6 19.8 |
| 711 | 0.18 | 0138 | 0172 | 0206 | 0240 | 0274 | 0308 | 0342 | 0376 | 0410 | 0444 | 7 23.1 |
| 712 | | 0478 | 0512 | 0546 | 0580 | 0614 | 0648 | 0682 | 0716 | 0750 | 0784 | 8 26.4 |
| 713 | | 0818 | 0853 | 0887 | 0921 | 0955 | 0989 | 1023 | 1057 | 1091 | 1125 | 9 29.7 |
| 714 | | 1159 | 1193 | 1227 | 1261 | 1296 | 1330 | 1364 | 1398 | 1432 | 1466 | |
| 715 | | 1501 | 1535 | 1569 | 1603 | 1637 | 1671 | 1706 | 1740 | 1774 | 1808 | 34 |
| 716 | | 1842 | 1877 | 1911 | 1945 | 1979 | 2014 | 2048 | 2082 | 2116 | 2151 | 1 3.4 |
| 717 | | 2185 | 2219 | 2253 | 2288 | 2322 | 2356 | 2390 | 2425 | 2459 | 2493 | 2 6.8 |
| 718 | | 2528 | 2562 | 2596 | 2631 | 2665 | 2699 | 2734 | 2768 | 2802 | 2837 | 3 10.2 |
| 719 | | 2871 | 2905 | 2940 | 2974 | 3009 | 3043 | 3077 | 3112 | 3146 | 3181 | 4 13.6 |
| 9.720 | 0.18 | 3215 | 3249 | 3284 | 3318 | 3353 | 3387 | 3422 | 3456 | 3491 | 3525 | 5 17.0 |
| 721 | | 3559 | 3594 | 3628 | 3663 | 3697 | 3732 | 3766 | 3801 | 3835 | 3870 | 6 20.4 |
| 722 | | 3904 | 3939 | 3973 | 4008 | 4043 | 4077 | 4112 | 4146 | 4181 | 4215 | 7 23.8 |
| 723 | | 4250 | 4284 | 4319 | 4354 | 4388 | 4423 | 4457 | 4492 | 4527 | 4561 | 8 27.2 |
| 724 | | 4596 | 4631 | 4665 | 4700 | 4734 | 4769 | 4804 | 4838 | 4873 | 4908 | 9 30.6 |
| 725 | | 4942 | 4977 | 5012 | 5046 | 5081 | 5116 | 5151 | 5185 | 5220 | 5255 | |
| 726 | | 5289 | 5324 | 5359 | 5394 | 5428 | 5463 | 5498 | 5533 | 5567 | 5602 | |
| 727 | | 5637 | 5672 | 5707 | 5741 | 5776 | 5811 | 5846 | 5881 | 5915 | 5950 | 35 |
| 728 | | 5985 | 6020 | 6055 | 6090 | 6124 | 6159 | 6194 | 6229 | 6264 | 6299 | 1 3.5 |
| 729 | | 6334 | 6369 | 6404 | 6438 | 6473 | 6508 | 6543 | 6578 | 6613 | 6648 | 2 7.0 |
| 9.730 | 0.18 | 6683 | 6718 | 6753 | 6788 | 6823 | 6858 | 6893 | 6928 | 6963 | 6998 | 3 10.5 |
| 731 | | 7033 | 7068 | 7103 | 7138 | 7173 | 7208 | 7243 | 7278 | 7313 | 7348 | 4 14.0 |
| 732 | | 7383 | 7418 | 7453 | 7488 | 7523 | 7558 | 7593 | 7628 | 7663 | 7698 | 5 17.5 |
| 733 | | 7733 | 7768 | 7803 | 7838 | 7873 | 7908 | 7943 | 7978 | 8013 | 8048 | 6 21.0 |
| 734 | | 8083 | 8120 | 8155 | 8190 | 8225 | 8260 | 8296 | 8331 | 8366 | 8401 | 7 24.5 |
| 735 | | 8430 | 8472 | 8507 | 8542 | 8577 | 8612 | 8648 | 8683 | 8718 | 8753 | 8 28.0 |
| 736 | | 8789 | 8824 | 8859 | 8894 | 8930 | 8965 | 9000 | 9036 | 9071 | 9106 | 9 31.5 |
| 737 | | 9141 | 9177 | 9212 | 9247 | 9283 | 9318 | 9353 | 9389 | 9424 | 9459 | |
| 738 | | 9495 | 9530 | 9566 | 9601 | 9636 | 9672 | 9707 | 9742 | 9778 | 9813 | |
| 739 | 0.18 | 9849 | 9884 | 9919 | 9955 | 9990 | 0026 | 0061 | 0097 | 0132 | 0168 | 36 |
| 9.740 | 0.19 | 0203 | 0239 | 0274 | 0309 | 0345 | 0380 | 0416 | 0451 | 0487 | 0522 | 1 3.6 |
| 741 | | 0558 | 0593 | 0629 | 0665 | 0700 | 0736 | 0771 | 0807 | 0842 | 0878 | 2 7.2 |
| 742 | | 0913 | 0949 | 0985 | 1020 | 1056 | 1091 | 1127 | 1163 | 1198 | 1234 | 3 10.8 |
| 743 | | 1269 | 1305 | 1341 | 1376 | 1412 | 1448 | 1483 | 1519 | 1555 | 1590 | 4 14.4 |
| 744 | | 1626 | 1662 | 1697 | 1733 | 1769 | 1804 | 1840 | 1876 | 1911 | 1947 | 5 18.0 |
| 745 | | 1983 | 2019 | 2054 | 2090 | 2126 | 2162 | 2197 | 2233 | 2269 | 2305 | 6 21.6 |
| 746 | | 2340 | 2376 | 2412 | 2448 | 2484 | 2519 | 2555 | 2591 | 2627 | 2663 | 7 25.2 |
| 747 | | 2699 | 2734 | 2770 | 2806 | 2842 | 2878 | 2914 | 2949 | 2985 | 3021 | 8 28.8 |
| 748 | | 3057 | 3093 | 3129 | 3165 | 3201 | 3237 | 3273 | 3308 | 3344 | 3380 | 9 32.4 |
| 749 | | 3416 | 3452 | 3488 | 3524 | 3560 | 3596 | 3632 | 3668 | 3704 | 3740 | |
| 9.750 | 0.19 | 3776 | 3812 | 3848 | 3884 | 3920 | 3956 | 3992 | 4028 | 4064 | 4100 | |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 9.750 | 0.19 | 3776 | 3812 | 3848 | 3884 | 3920 | 3956 | 3992 | 4028 | 4064 | 4100 | |
| 751 | | 4136 | 4172 | 4208 | 4244 | 4280 | 4316 | 4352 | 4389 | 4425 | 4461 | |
| 752 | | 4497 | 4533 | 4569 | 4605 | 4641 | 4677 | 4714 | 4750 | 4786 | 4822 | |
| 753 | | 4858 | 4894 | 4930 | 4967 | 5003 | 5039 | 5075 | 5111 | 5148 | 5184 | |
| 754 | | 5220 | 5256 | 5292 | 5329 | 5365 | 5401 | 5437 | 5473 | 5510 | 5546 | |
| 755 | | 5582 | 5618 | 5655 | 5691 | 5727 | 5764 | 5800 | 5836 | 5872 | 5909 | 1 3.6 |
| 756 | | 5945 | 5981 | 6018 | 6054 | 6090 | 6127 | 6163 | 6199 | 6236 | 6272 | 2 7.2 |
| 757 | | 6308 | 6345 | 6381 | 6418 | 6454 | 6490 | 6527 | 6563 | 6600 | 6636 | 3 10.8 |
| 758 | | 6672 | 6709 | 6745 | 6782 | 6818 | 6855 | 6891 | 6927 | 6964 | 7000 | 4 14.4 |
| 759 | | 7037 | 7073 | 7110 | 7146 | 7183 | 7219 | 7256 | 7292 | 7329 | 7365 | 5 18.0 |
| 9.760 | 0.19 | 7402 | 7438 | 7475 | 7511 | 7548 | 7585 | 7621 | 7658 | 7694 | 7731 | 6 21.6 |
| 761 | | 7767 | 7804 | 7841 | 7877 | 7914 | 7950 | 7987 | 8024 | 8060 | 8097 | 7 25.2 |
| 762 | | 8133 | 8170 | 8207 | 8243 | 8280 | 8317 | 8353 | 8390 | 8427 | 8463 | 8 28.8 |
| 763 | | 8500 | 8537 | 8573 | 8610 | 8647 | 8684 | 8720 | 8757 | 8794 | 8830 | 9 32.4 |
| 764 | | 8867 | 8904 | 8941 | 8977 | 9014 | 9051 | 9088 | 9124 | 9161 | 9198 | |
| 765 | | 9235 | 9272 | 9308 | 9345 | 9382 | 9419 | 9456 | 9492 | 9529 | 9566 | |
| 766 | | 9603 | 9640 | 9677 | 9714 | 9750 | 9787 | 9824 | 9861 | 9898 | 9935 | 1 37 |
| 767 | 0.19 | 9972 | 0009 | 0046 | 0082 | 0119 | 0156 | 0193 | 0230 | 0267 | 0304 | 2 7.4 |
| 768 | 0.20 | 0341 | 0378 | 0415 | 0452 | 0489 | 0526 | 0563 | 0600 | 0637 | 0674 | 3 11.1 |
| 769 | | 0711 | 0748 | 0785 | 0822 | 0859 | 0896 | 0933 | 0970 | 1007 | 1044 | 4 14.8 |
| 9.770 | 0.20 | 1081 | 1118 | 1155 | 1192 | 1229 | 1267 | 1304 | 1341 | 1378 | 1415 | 5 18.5 |
| 771 | | 1452 | 1489 | 1526 | 1563 | 1601 | 1638 | 1675 | 1712 | 1749 | 1786 | 6 22.2 |
| 772 | | 1823 | 1861 | 1898 | 1935 | 1972 | 2009 | 2047 | 2084 | 2121 | 2158 | 7 25.9 |
| 773 | | 2195 | 2233 | 2270 | 2307 | 2344 | 2382 | 2419 | 2456 | 2493 | 2531 | 8 29.6 |
| 774 | | 2568 | 2605 | 2642 | 2680 | 2717 | 2754 | 2792 | 2829 | 2866 | 2904 | 9 33.3 |
| 775 | | 2941 | 2978 | 3016 | 3053 | 3090 | 3128 | 3165 | 3202 | 3240 | 3277 | |
| 776 | | 3315 | 3352 | 3389 | 3427 | 3464 | 3501 | 3539 | 3576 | 3614 | 3651 | |
| 777 | | 3689 | 3726 | 3764 | 3801 | 3838 | 3876 | 3913 | 3951 | 3988 | 4026 | 1 38 |
| 778 | | 4063 | 4101 | 4138 | 4176 | 4213 | 4251 | 4288 | 4326 | 4363 | 4401 | 2 7.6 |
| 779 | | 4438 | 4476 | 4514 | 4551 | 4589 | 4626 | 4664 | 4701 | 4739 | 4777 | 3 11.4 |
| 9.780 | 0.20 | 4814 | 4852 | 4889 | 4927 | 4965 | 5002 | 5040 | 5078 | 5115 | 5153 | 4 15.2 |
| 781 | | 5190 | 5228 | 5266 | 5303 | 5341 | 5379 | 5416 | 5454 | 5492 | 5530 | 5 19.0 |
| 782 | | 5567 | 5605 | 5643 | 5680 | 5718 | 5756 | 5794 | 5831 | 5869 | 5907 | 6 22.8 |
| 783 | | 5945 | 5982 | 6020 | 6058 | 6096 | 6133 | 6171 | 6209 | 6247 | 6285 | 7 26.6 |
| 784 | | 6323 | 6360 | 6398 | 6436 | 6474 | 6512 | 6549 | 6587 | 6625 | 6663 | 8 30.4 |
| 785 | | 6701 | 6739 | 6777 | 6815 | 6852 | 6890 | 6928 | 6966 | 7004 | 7042 | 9 34.2 |
| 786 | | 7080 | 7118 | 7156 | 7194 | 7232 | 7270 | 7308 | 7346 | 7383 | 7421 | |
| 787 | | 7459 | 7497 | 7535 | 7573 | 7611 | 7649 | 7687 | 7725 | 7763 | 7801 | |
| 788 | | 7839 | 7878 | 7916 | 7954 | 7992 | 8030 | 8068 | 8106 | 8144 | 8182 | |
| 789 | | 8220 | 8258 | 8296 | 8334 | 8372 | 8411 | 8449 | 8487 | 8525 | 8563 | 1 39 |
| 9.790 | 0.20 | 8601 | 8639 | 8678 | 8716 | 8754 | 8792 | 8830 | 8868 | 8907 | 8945 | 2 7.8 |
| 791 | | 8983 | 9021 | 9059 | 9098 | 9136 | 9174 | 9212 | 9250 | 9289 | 9327 | 3 11.7 |
| 792 | | 9365 | 9403 | 9442 | 9480 | 9518 | 9556 | 9595 | 9633 | 9671 | 9710 | 4 15.6 |
| 793 | 0.20 | 9748 | 9786 | 9825 | 9863 | 9901 | 9940 | 9978 | 0016 | 0055 | 0093 | 5 19.5 |
| 794 | 0.21 | 0131 | 0170 | 0208 | 0246 | 0285 | 0323 | 0361 | 0400 | 0438 | 0477 | 6 23.4 |
| 795 | | 0515 | 0554 | 0592 | 0630 | 0669 | 0707 | 0746 | 0784 | 0823 | 0861 | 7 27.3 |
| 796 | | 0900 | 0938 | 0976 | 1015 | 1053 | 1092 | 1130 | 1169 | 1207 | 1246 | 8 31.2 |
| 797 | | 1284 | 1323 | 1362 | 1400 | 1439 | 1477 | 1516 | 1554 | 1593 | 1631 | 9 35.1 |
| 798 | | 1670 | 1709 | 1747 | 1786 | 1824 | 1863 | 1902 | 1940 | 1979 | 2017 | |
| 799 | | 2056 | 2095 | 2133 | 2172 | 2211 | 2249 | 2288 | 2327 | 2365 | 2404 | |
| 9.800 | 0.21 | 2443 | 2481 | 2520 | 2559 | 2597 | 2636 | 2675 | 2714 | 2752 | 2791 | |

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 9.800 | 0.21 | 2443 | 2481 | 2520 | 2559 | 2597 | 2636 | 2675 | 2714 | 2752 | 2791 | |
| 801 | | 2830 | 2868 | 2907 | 2946 | 2985 | 3024 | 3062 | 3101 | 3140 | 3179 | 38 |
| 802 | | 3217 | 3255 | 3295 | 3334 | 3373 | 3411 | 3450 | 3489 | 3528 | 3567 | 1 3.8 |
| 803 | | 3606 | 3645 | 3683 | 3722 | 3761 | 3800 | 3839 | 3878 | 3917 | 3956 | 2 7.6 |
| 804 | | 3994 | 4033 | 4072 | 4111 | 4150 | 4189 | 4228 | 4267 | 4306 | 4345 | 3 11.4 |
| 805 | | 4384 | 4423 | 4462 | 4501 | 4540 | 4579 | 4618 | 4657 | 4696 | 4735 | 4 15.2 |
| 806 | | 4774 | 4813 | 4852 | 4891 | 4930 | 4969 | 5008 | 5047 | 5086 | 5125 | 5 19.0 |
| 807 | | 5164 | 5203 | 5242 | 5281 | 5320 | 5359 | 5399 | 5438 | 5477 | 5516 | 6 22.8 |
| 808 | | 5555 | 5594 | 5633 | 5672 | 5712 | 5751 | 5790 | 5829 | 5868 | 5907 | 7 26.6 |
| 809 | | 5947 | 5986 | 6025 | 6064 | 6103 | 6142 | 6182 | 6221 | 6260 | 6299 | 8 30.4 |
| 9.810 | 0.21 | 6339 | 6378 | 6417 | 6456 | 6496 | 6535 | 6574 | 6613 | 6653 | 6692 | 9 34.2 |
| 811 | | 6731 | 6770 | 6810 | 6849 | 6888 | 6928 | 6967 | 7006 | 7046 | 7085 | 39 |
| 812 | | 7124 | 7164 | 7203 | 7242 | 7282 | 7321 | 7361 | 7400 | 7439 | 7479 | 1 3.9 |
| 813 | | 7518 | 7557 | 7597 | 7636 | 7676 | 7715 | 7755 | 7794 | 7833 | 7873 | 2 7.8 |
| 814 | | 7912 | 7952 | 7991 | 8031 | 8070 | 8110 | 8149 | 8189 | 8228 | 8268 | 3 11.7 |
| 815 | | 8307 | 8347 | 8386 | 8426 | 8465 | 8505 | 8544 | 8584 | 8623 | 8663 | 4 15.6 |
| 816 | | 8703 | 8742 | 8782 | 8821 | 8861 | 8900 | 8940 | 8980 | 9019 | 9059 | 5 19.5 |
| 817 | | 9098 | 9138 | 9178 | 9217 | 9257 | 9297 | 9336 | 9376 | 9416 | 9455 | 6 23.4 |
| 818 | | 9495 | 9535 | 9574 | 9614 | 9654 | 9693 | 9733 | 9773 | 9812 | 9852 | 7 27.3 |
| 819 | 0.21 | 9892 | 9932 | 9971 | 0011 | 0051 | 0091 | 0130 | 0170 | 0210 | 0250 | 8 31.2 |
| 9.820 | 0.22 | 0289 | 0329 | 0369 | 0409 | 0449 | 0488 | 0528 | 0568 | 0608 | 0648 | 9 35.1 |
| 821 | | 0688 | 0727 | 0767 | 0807 | 0847 | 0887 | 0927 | 0967 | 1006 | 1046 | 40 |
| 822 | | 1086 | 1126 | 1166 | 1206 | 1246 | 1286 | 1326 | 1366 | 1406 | 1446 | 1 4.0 |
| 823 | | 1485 | 1525 | 1565 | 1605 | 1645 | 1685 | 1725 | 1765 | 1805 | 1845 | 2 8.0 |
| 824 | | 1885 | 1925 | 1965 | 2005 | 2045 | 2085 | 2125 | 2165 | 2205 | 2246 | 3 12.0 |
| 825 | | 2286 | 2326 | 2366 | 2406 | 2446 | 2486 | 2526 | 2566 | 2606 | 2646 | 4 16.0 |
| 826 | | 2686 | 2727 | 2767 | 2807 | 2847 | 2887 | 2927 | 2967 | 3008 | 3048 | 5 20.0 |
| 827 | | 3088 | 3128 | 3168 | 3208 | 3249 | 3289 | 3329 | 3369 | 3409 | 3450 | 6 24.0 |
| 828 | | 3490 | 3530 | 3570 | 3611 | 3651 | 3691 | 3731 | 3772 | 3812 | 3852 | 7 28.0 |
| 829 | | 3892 | 3933 | 3973 | 4013 | 4054 | 4094 | 4134 | 4175 | 4215 | 4255 | 8 32.0 |
| 9.830 | 0.22 | 4296 | 4336 | 4376 | 4417 | 4457 | 4497 | 4538 | 4578 | 4618 | 4659 | 9 36.0 |
| 831 | | 4699 | 4740 | 4780 | 4820 | 4861 | 4901 | 4942 | 4982 | 5022 | 5063 | 41 |
| 832 | | 5103 | 5144 | 5184 | 5225 | 5265 | 5306 | 5346 | 5387 | 5427 | 5468 | 1 4.1 |
| 833 | | 5508 | 5549 | 5589 | 5630 | 5670 | 5711 | 5751 | 5792 | 5832 | 5873 | 2 8.2 |
| 834 | | 5913 | 5954 | 5995 | 6035 | 6076 | 6116 | 6157 | 6197 | 6238 | 6279 | 3 12.3 |
| 835 | | 6319 | 6360 | 6401 | 6441 | 6482 | 6522 | 6563 | 6604 | 6644 | 6685 | 4 16.4 |
| 836 | | 6726 | 6766 | 6807 | 6848 | 6888 | 6929 | 6970 | 7011 | 7051 | 7092 | 5 20.5 |
| 837 | | 7133 | 7173 | 7214 | 7255 | 7296 | 7336 | 7377 | 7418 | 7459 | 7499 | 6 24.6 |
| 838 | | 7540 | 7581 | 7622 | 7663 | 7703 | 7744 | 7785 | 7826 | 7867 | 7907 | 7 28.7 |
| 839 | | 7948 | 7989 | 8030 | 8071 | 8112 | 8153 | 8193 | 8234 | 8275 | 8316 | 8 32.8 |
| 9.840 | 0.22 | 8357 | 8398 | 8439 | 8480 | 8521 | 8562 | 8602 | 8643 | 8684 | 8725 | 9 36.9 |
| 841 | | 8766 | 8807 | 8848 | 8889 | 8930 | 8971 | 9012 | 9053 | 9094 | 9135 | 42 |
| 842 | | 9176 | 9217 | 9258 | 9299 | 9340 | 9381 | 9422 | 9463 | 9504 | 9545 | 1 4.2 |
| 843 | | 9586 | 9627 | 9668 | 9709 | 9751 | 9792 | 9833 | 9874 | 9915 | 9956 | 2 8.4 |
| 844 | 0.22 | 9997 | 0038 | 0079 | 0120 | 0162 | 0203 | 0244 | 0285 | 0326 | 0367 | 3 12.6 |
| 845 | 0.23 | 0409 | 0450 | 0491 | 0532 | 0573 | 0614 | 0656 | 0697 | 0738 | 0779 | 4 16.8 |
| 846 | | 0821 | 0862 | 0903 | 0944 | 0985 | 1027 | 1068 | 1109 | 1151 | 1192 | 5 21.0 |
| 847 | | 1233 | 1274 | 1316 | 1357 | 1398 | 1440 | 1481 | 1522 | 1564 | 1605 | 6 25.2 |
| 848 | | 1646 | 1688 | 1729 | 1770 | 1812 | 1853 | 1894 | 1936 | 1977 | 2018 | 7 29.4 |
| 849 | | 2060 | 2101 | 2143 | 2184 | 2225 | 2267 | 2308 | 2350 | 2391 | 2433 | 8 33.6 |
| 9.850 | 0.23 | 2474 | 2516 | 2557 | 2598 | 2640 | 2681 | 2723 | 2764 | 2806 | 2847 | 9 37.8 |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log b - \log a = A$$

$$\log(a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log(a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|------|------|------|------|------|------|------|------|------|------|------|--------|
| 9.850 | 0.23 | 2474 | 2516 | 2557 | 2598 | 2640 | 2681 | 2723 | 2764 | 2806 | 2847 | |
| 851 | | 2889 | 2930 | 2972 | 3013 | 3055 | 3096 | 3138 | 3180 | 3221 | 3263 | 41 |
| 852 | | 3304 | 3346 | 3387 | 3429 | 3470 | 3512 | 3554 | 3595 | 3637 | 3678 | 1 4.1 |
| 853 | | 3720 | 3762 | 3803 | 3845 | 3887 | 3928 | 3970 | 4012 | 4053 | 4095 | 2 8.2 |
| 854 | | 4137 | 4178 | 4220 | 4262 | 4303 | 4345 | 4387 | 4428 | 4470 | 4512 | 3 12.3 |
| 855 | | 4554 | 4595 | 4637 | 4679 | 4721 | 4762 | 4804 | 4846 | 4888 | 4929 | 4 16.4 |
| 856 | | 4971 | 5013 | 5055 | 5097 | 5138 | 5180 | 5222 | 5264 | 5306 | 5347 | 5 20.5 |
| 857 | | 5389 | 5431 | 5473 | 5515 | 5557 | 5599 | 5640 | 5682 | 5724 | 5766 | 6 24.6 |
| 858 | | 5808 | 5850 | 5892 | 5934 | 5976 | 6018 | 6059 | 6101 | 6143 | 6185 | 7 28.7 |
| 859 | | 6227 | 6269 | 6311 | 6353 | 6395 | 6437 | 6479 | 6521 | 6563 | 6605 | 8 32.8 |
| 9.860 | 0.23 | 6647 | 6689 | 6731 | 6773 | 6815 | 6857 | 6899 | 6941 | 6983 | 7025 | 9 36.9 |
| 861 | | 7067 | 7109 | 7152 | 7194 | 7236 | 7278 | 7320 | 7362 | 7404 | 7446 | 42 |
| 862 | | 7488 | 7531 | 7573 | 7615 | 7657 | 7699 | 7741 | 7783 | 7826 | 7868 | 1 4.2 |
| 863 | | 7910 | 7952 | 7994 | 8036 | 8079 | 8121 | 8163 | 8205 | 8248 | 8290 | 2 8.4 |
| 864 | | 8332 | 8374 | 8416 | 8459 | 8501 | 8543 | 8585 | 8628 | 8670 | 8712 | 3 12.6 |
| 865 | | 8755 | 8797 | 8839 | 8881 | 8924 | 8966 | 9008 | 9051 | 9093 | 9135 | 4 16.8 |
| 866 | | 9178 | 9220 | 9262 | 9305 | 9347 | 9390 | 9432 | 9474 | 9517 | 9559 | 5 21.0 |
| 867 | 0.23 | 9602 | 9644 | 9686 | 9729 | 9771 | 9814 | 9856 | 9898 | 9941 | 9983 | 6 25.2 |
| 868 | 0.24 | 0026 | 0068 | 0111 | 0153 | 0196 | 0238 | 0281 | 0323 | 0366 | 0408 | 7 29.4 |
| 869 | | 0451 | 0493 | 0536 | 0578 | 0621 | 0663 | 0706 | 0748 | 0791 | 0834 | 8 33.6 |
| 9.870 | 0.24 | 0876 | 0919 | 0961 | 1004 | 1046 | 1089 | 1132 | 1174 | 1217 | 1260 | 9 37.8 |
| 871 | | 1302 | 1345 | 1387 | 1430 | 1473 | 1515 | 1558 | 1601 | 1643 | 1686 | 43 |
| 872 | | 1729 | 1771 | 1814 | 1857 | 1900 | 1942 | 1985 | 2028 | 2070 | 2113 | 1 4.3 |
| 873 | | 2156 | 2199 | 2241 | 2284 | 2327 | 2370 | 2412 | 2455 | 2498 | 2541 | 2 8.6 |
| 874 | | 2584 | 2626 | 2669 | 2712 | 2755 | 2798 | 2840 | 2883 | 2926 | 2969 | 3 12.9 |
| 875 | | 3012 | 3055 | 3098 | 3140 | 3183 | 3226 | 3269 | 3312 | 3355 | 3398 | 4 17.2 |
| 876 | | 3441 | 3484 | 3526 | 3569 | 3612 | 3655 | 3698 | 3741 | 3784 | 3827 | 5 21.5 |
| 877 | | 3870 | 3913 | 3956 | 3999 | 4042 | 4085 | 4128 | 4171 | 4214 | 4257 | 6 25.8 |
| 878 | | 4300 | 4343 | 4386 | 4429 | 4472 | 4515 | 4558 | 4601 | 4644 | 4687 | 7 30.1 |
| 879 | | 4711 | 4754 | 4797 | 4840 | 4883 | 4926 | 4969 | 5012 | 5055 | 5098 | 8 34.4 |
| 9.880 | 0.24 | 5162 | 5205 | 5248 | 5291 | 5334 | 5377 | 5420 | 5464 | 5507 | 5550 | 9 38.7 |
| 881 | | 5593 | 5636 | 5680 | 5723 | 5766 | 5809 | 5852 | 5896 | 5939 | 5982 | 44 |
| 882 | | 6025 | 6069 | 6112 | 6155 | 6198 | 6242 | 6285 | 6328 | 6372 | 6415 | 1 4.4 |
| 883 | | 6458 | 6501 | 6545 | 6588 | 6631 | 6675 | 6718 | 6761 | 6805 | 6848 | 2 8.8 |
| 884 | | 6891 | 6935 | 6978 | 7022 | 7065 | 7108 | 7152 | 7195 | 7239 | 7282 | 3 13.2 |
| 885 | | 7325 | 7369 | 7412 | 7456 | 7499 | 7543 | 7586 | 7629 | 7673 | 7716 | 4 17.6 |
| 886 | | 7760 | 7803 | 7847 | 7890 | 7934 | 7977 | 8021 | 8064 | 8108 | 8151 | 5 22.0 |
| 887 | | 8195 | 8238 | 8282 | 8326 | 8369 | 8413 | 8456 | 8500 | 8543 | 8587 | 6 26.4 |
| 888 | | 8630 | 8674 | 8718 | 8761 | 8805 | 8849 | 8892 | 8936 | 8979 | 9023 | 7 30.8 |
| 889 | | 9067 | 9110 | 9154 | 9198 | 9241 | 9285 | 9329 | 9372 | 9416 | 9460 | 8 35.2 |
| 9.890 | 0.24 | 9503 | 9547 | 9591 | 9635 | 9678 | 9722 | 9766 | 9809 | 9853 | 9897 | 9 39.6 |
| 891 | 0.24 | 9941 | 9984 | 0028 | 0072 | 0116 | 0160 | 0203 | 0247 | 0291 | 0335 | 45 |
| 892 | 0.25 | 0379 | 0422 | 0466 | 0510 | 0554 | 0598 | 0642 | 0685 | 0729 | 0773 | 1 4.5 |
| 893 | | 0817 | 0861 | 0905 | 0949 | 0993 | 1036 | 1080 | 1124 | 1168 | 1212 | 2 9.0 |
| 894 | | 1256 | 1300 | 1344 | 1388 | 1432 | 1476 | 1520 | 1564 | 1608 | 1652 | 3 13.5 |
| 895 | | 1696 | 1740 | 1784 | 1828 | 1872 | 1916 | 1960 | 2004 | 2048 | 2092 | 4 18.0 |
| 896 | | 2136 | 2180 | 2224 | 2268 | 2312 | 2356 | 2400 | 2444 | 2488 | 2532 | 5 22.5 |
| 897 | | 2576 | 2620 | 2665 | 2709 | 2753 | 2797 | 2841 | 2885 | 2929 | 2973 | 6 27.0 |
| 898 | | 3018 | 3062 | 3106 | 3150 | 3194 | 3238 | 3282 | 3327 | 3371 | 3415 | 7 31.5 |
| 899 | | 3459 | 3504 | 3548 | 3592 | 3636 | 3681 | 3725 | 3769 | 3813 | 3858 | 8 36.0 |
| 9.900 | 0.25 | 3902 | 3946 | 3990 | 4035 | 4079 | 4123 | 4168 | 4212 | 4256 | 4301 | 9 40.5 |
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log b - \log a = A$ $\log a - \log b = B$ $\log (a + b) = \log a + B$ $\log (a - b) = \log b + A$ | | | | | | | | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|--------|
| 9.900 | 0.25 3902 | 3946 | 3990 | 4035 | 4079 | 4123 | 4168 | 4212 | 4256 | 4301 | |
| 901 | 4345 | 4389 | 4434 | 4478 | 4522 | 4567 | 4611 | 4655 | 4700 | 4744 | 44 |
| 902 | 4788 | 4833 | 4877 | 4922 | 4966 | 5010 | 5055 | 5099 | 5144 | 5188 | 1 4.4 |
| 903 | 5233 | 5277 | 5321 | 5366 | 5410 | 5455 | 5499 | 5544 | 5588 | 5633 | 2 8.8 |
| 904 | 5677 | 5722 | 5766 | 5811 | 5855 | 5900 | 5944 | 5989 | 6033 | 6078 | 3 13.2 |
| 905 | 6121 | 6167 | 6212 | 6256 | 6301 | 6345 | 6390 | 6434 | 6479 | 6524 | 4 17.6 |
| 906 | 6568 | 6613 | 6657 | 6702 | 6747 | 6791 | 6836 | 6881 | 6925 | 6970 | 5 22.0 |
| 907 | 7015 | 7059 | 7104 | 7149 | 7193 | 7238 | 7283 | 7327 | 7372 | 7417 | 6 26.4 |
| 908 | 7462 | 7506 | 7551 | 7596 | 7641 | 7685 | 7730 | 7775 | 7820 | 7864 | 7 30.8 |
| 909 | 7909 | 7954 | 7999 | 8043 | 8088 | 8133 | 8178 | 8223 | 8268 | 8312 | 8 35.2 |
| 9.910 | 0.25 8357 | 8402 | 8447 | 8492 | 8537 | 8581 | 8626 | 8671 | 8716 | 8761 | 9 39.6 |
| 911 | 8806 | 8851 | 8896 | 8941 | 8985 | 9030 | 9075 | 9120 | 9165 | 9210 | 45 |
| 912 | 9255 | 9300 | 9345 | 9390 | 9435 | 9480 | 9525 | 9570 | 9615 | 9660 | 1 4.5 |
| 913 | 0.25 9705 | 9750 | 9795 | 9840 | 9885 | 9930 | 9975 | 0020 | 0065 | 0110 | 2 9.0 |
| 914 | 0.26 0155 | 0200 | 0245 | 0290 | 0336 | 0381 | 0426 | 0471 | 0516 | 0561 | 3 13.5 |
| 915 | 0606 | 0651 | 0696 | 0742 | 0787 | 0832 | 0877 | 0922 | 0967 | 1013 | 4 18.0 |
| 916 | 1058 | 1103 | 1148 | 1193 | 1238 | 1284 | 1329 | 1374 | 1419 | 1465 | 5 22.5 |
| 917 | 1510 | 1555 | 1600 | 1646 | 1691 | 1736 | 1781 | 1827 | 1872 | 1917 | 6 27.0 |
| 918 | 1962 | 2008 | 2053 | 2098 | 2144 | 2189 | 2234 | 2280 | 2325 | 2370 | 7 31.5 |
| 919 | 2416 | 2461 | 2506 | 2552 | 2597 | 2642 | 2688 | 2733 | 2779 | 2824 | 8 36.0 |
| 9.920 | 0.26 2869 | 2915 | 2960 | 3006 | 3051 | 3097 | 3142 | 3187 | 3233 | 3278 | 9 40.5 |
| 921 | 3324 | 3369 | 3415 | 3460 | 3506 | 3551 | 3597 | 3642 | 3688 | 3733 | 46 |
| 922 | 3779 | 3824 | 3870 | 3915 | 3961 | 4006 | 4052 | 4098 | 4143 | 4189 | 1 4.6 |
| 923 | 4234 | 4280 | 4325 | 4371 | 4417 | 4462 | 4508 | 4553 | 4599 | 4645 | 2 9.2 |
| 924 | 4690 | 4736 | 4782 | 4827 | 4873 | 4919 | 4964 | 5010 | 5056 | 5101 | 3 13.8 |
| 925 | 5147 | 5193 | 5238 | 5284 | 5330 | 5376 | 5421 | 5467 | 5513 | 5558 | 4 18.4 |
| 926 | 5604 | 5650 | 5696 | 5742 | 5787 | 5833 | 5879 | 5925 | 5970 | 6016 | 5 23.0 |
| 927 | 6062 | 6108 | 6154 | 6199 | 6245 | 6291 | 6337 | 6383 | 6429 | 6475 | 6 27.6 |
| 928 | 6520 | 6566 | 6612 | 6658 | 6704 | 6750 | 6796 | 6842 | 6887 | 6933 | 7 32.2 |
| 929 | 6979 | 7025 | 7071 | 7117 | 7163 | 7209 | 7255 | 7301 | 7347 | 7393 | 8 36.8 |
| 9.930 | 0.26 7439 | 7485 | 7531 | 7577 | 7623 | 7669 | 7715 | 7761 | 7807 | 7853 | 9 41.4 |
| 931 | 7899 | 7945 | 7991 | 8037 | 8083 | 8129 | 8175 | 8221 | 8267 | 8313 | 47 |
| 932 | 8360 | 8406 | 8452 | 8498 | 8544 | 8590 | 8636 | 8682 | 8728 | 8775 | 1 4.7 |
| 933 | 8821 | 8867 | 8913 | 8959 | 9005 | 9052 | 9098 | 9144 | 9190 | 9236 | 2 9.4 |
| 934 | 9283 | 9329 | 9375 | 9421 | 9467 | 9514 | 9560 | 9606 | 9652 | 9699 | 3 14.1 |
| 935 | 0.26 9745 | 9791 | 9837 | 9884 | 9930 | 9976 | 0022 | 0069 | 0115 | 0162 | 4 18.8 |
| 936 | 0.27 0208 | 0254 | 0301 | 0347 | 0393 | 0440 | 0486 | 0532 | 0579 | 0625 | 5 23.5 |
| 937 | 0671 | 0718 | 0764 | 0811 | 0857 | 0903 | 0950 | 0996 | 1043 | 1089 | 6 28.2 |
| 938 | 1135 | 1182 | 1228 | 1275 | 1321 | 1368 | 1414 | 1461 | 1507 | 1554 | 7 32.9 |
| 939 | 1600 | 1647 | 1693 | 1740 | 1786 | 1833 | 1879 | 1926 | 1972 | 2019 | 8 37.6 |
| 9.940 | 0.27 2065 | 2112 | 2158 | 2205 | 2252 | 2298 | 2345 | 2391 | 2438 | 2485 | 9 42.3 |
| 941 | 2531 | 2578 | 2624 | 2671 | 2718 | 2764 | 2811 | 2858 | 2904 | 2951 | 48 |
| 942 | 2998 | 3044 | 3091 | 3138 | 3184 | 3231 | 3278 | 3324 | 3371 | 3418 | 1 4.8 |
| 943 | 3464 | 3511 | 3558 | 3605 | 3651 | 3698 | 3745 | 3792 | 3838 | 3885 | 2 9.6 |
| 944 | 3932 | 3979 | 4026 | 4072 | 4119 | 4166 | 4213 | 4260 | 4306 | 4353 | 3 14.4 |
| 945 | 4400 | 4447 | 4494 | 4541 | 4588 | 4634 | 4681 | 4728 | 4775 | 4822 | 4 19.2 |
| 946 | 4869 | 4916 | 4963 | 5009 | 5056 | 5103 | 5150 | 5197 | 5244 | 5291 | 5 24.0 |
| 947 | 5338 | 5385 | 5432 | 5479 | 5526 | 5573 | 5620 | 5667 | 5714 | 5761 | 6 28.8 |
| 948 | 5808 | 5855 | 5902 | 5949 | 5996 | 6043 | 6090 | 6137 | 6184 | 6231 | 7 33.6 |
| 949 | 6278 | 6325 | 6372 | 6419 | 6467 | 6514 | 6561 | 6608 | 6655 | 6702 | 8 38.4 |
| 9.950 | 0.27 6749 | 6796 | 6843 | 6891 | 6938 | 6985 | 7032 | 7079 | 7126 | 7174 | 9 43.2 |

A B 0 1 2 3 4 5 6 7 8 9 PP.

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 9.950 | 0.27 | 6749 | 6796 | 6843 | 6891 | 6938 | 6985 | 7032 | 7079 | 7126 | 7174 | |
| 951 | | 7221 | 7268 | 7315 | 7362 | 7409 | 7457 | 7504 | 7551 | 7598 | 7646 | |
| 952 | | 7693 | 7740 | 7787 | 7835 | 7882 | 7929 | 7976 | 8024 | 8071 | 8118 | |
| 953 | | 8165 | 8213 | 8260 | 8307 | 8355 | 8402 | 8449 | 8497 | 8544 | 8591 | |
| 954 | | 8639 | 8686 | 8733 | 8781 | 8828 | 8876 | 8923 | 8970 | 9018 | 9065 | 47 |
| 955 | | 9113 | 9160 | 9207 | 9255 | 9302 | 9350 | 9397 | 9445 | 9492 | 9540 | 1 4.7 |
| 956 | 0.27 | 9587 | 9634 | 9682 | 9729 | 9777 | 9824 | 9872 | 9919 | 9967 | 0014 | 2 9.4 |
| 957 | 0.28 | 0062 | 0109 | 0157 | 0205 | 0252 | 0300 | 0347 | 0395 | 0442 | 0490 | 3 14.1 |
| 958 | | 0538 | 0585 | 0633 | 0680 | 0728 | 0776 | 0823 | 0871 | 0918 | 0966 | 4 18.8 |
| 959 | | 1014 | 1061 | 1109 | 1157 | 1204 | 1252 | 1300 | 1347 | 1395 | 1443 | 5 23.5 |
| 9.960 | 0.28 | 1490 | 1538 | 1586 | 1633 | 1681 | 1729 | 1777 | 1824 | 1872 | 1920 | 6 28.2 |
| 961 | | 1968 | 2015 | 2063 | 2111 | 2159 | 2206 | 2254 | 2302 | 2350 | 2398 | 7 32.9 |
| 962 | | 2445 | 2493 | 2541 | 2589 | 2637 | 2685 | 2732 | 2780 | 2828 | 2876 | 8 37.6 |
| 963 | | 2924 | 2972 | 3020 | 3068 | 3115 | 3163 | 3211 | 3259 | 3307 | 3355 | 9 42.3 |
| 964 | | 3403 | 3451 | 3499 | 3547 | 3595 | 3643 | 3691 | 3739 | 3787 | 3835 | |
| 965 | | 3882 | 3930 | 3978 | 4026 | 4074 | 4122 | 4171 | 4219 | 4267 | 4315 | |
| 966 | | 4363 | 4411 | 4459 | 4507 | 4555 | 4603 | 4651 | 4699 | 4747 | 4795 | 48 |
| 967 | | 4843 | 4891 | 4940 | 4988 | 5036 | 5084 | 5132 | 5180 | 5228 | 5277 | 1 4.8 |
| 968 | | 5325 | 5373 | 5421 | 5469 | 5517 | 5566 | 5614 | 5662 | 5710 | 5758 | 2 9.6 |
| 969 | | 5807 | 5855 | 5903 | 5951 | 5999 | 6048 | 6096 | 6144 | 6192 | 6241 | 3 14.4 |
| 9.970 | 0.28 | 6289 | 6337 | 6386 | 6434 | 6482 | 6530 | 6579 | 6627 | 6675 | 6724 | 4 19.2 |
| 971 | | 6772 | 6820 | 6869 | 6917 | 6965 | 7014 | 7062 | 7110 | 7159 | 7207 | 5 24.0 |
| 972 | | 7256 | 7304 | 7352 | 7401 | 7449 | 7498 | 7546 | 7594 | 7643 | 7691 | 6 28.8 |
| 973 | | 7740 | 7788 | 7837 | 7885 | 7934 | 7982 | 8031 | 8079 | 8128 | 8176 | 7 33.6 |
| 974 | | 8225 | 8273 | 8322 | 8370 | 8419 | 8467 | 8516 | 8564 | 8613 | 8661 | 8 38.4 |
| 975 | | 8710 | 8758 | 8807 | 8855 | 8904 | 8953 | 9001 | 9050 | 9098 | 9147 | 9 43.2 |
| 976 | | 9196 | 9244 | 9293 | 9342 | 9390 | 9439 | 9488 | 9536 | 9585 | 9634 | |
| 977 | 0.28 | 9682 | 9731 | 9780 | 9828 | 9877 | 9926 | 9974 | 0023 | 0072 | 0121 | 49 |
| 978 | 0.29 | 0169 | 0218 | 0267 | 0316 | 0364 | 0413 | 0462 | 0511 | 0559 | 0608 | 1 4.9 |
| 979 | | 0657 | 0706 | 0755 | 0803 | 0852 | 0901 | 0950 | 0999 | 1047 | 1096 | 2 9.8 |
| 9.980 | 0.29 | 1145 | 1194 | 1243 | 1292 | 1341 | 1389 | 1438 | 1487 | 1536 | 1585 | 3 14.7 |
| 981 | | 1634 | 1683 | 1732 | 1781 | 1830 | 1879 | 1927 | 1976 | 2025 | 2074 | 4 19.6 |
| 982 | | 2123 | 2172 | 2221 | 2270 | 2319 | 2368 | 2417 | 2466 | 2515 | 2564 | 5 24.5 |
| 983 | | 2613 | 2662 | 2711 | 2760 | 2809 | 2858 | 2907 | 2956 | 3006 | 3055 | 6 29.4 |
| 984 | | 3104 | 3153 | 3202 | 3251 | 3300 | 3349 | 3398 | 3447 | 3496 | 3546 | 7 34.3 |
| 985 | | 3595 | 3644 | 3693 | 3742 | 3791 | 3841 | 3890 | 3939 | 3988 | 4037 | 8 39.2 |
| 986 | | 4086 | 4136 | 4185 | 4234 | 4283 | 4332 | 4382 | 4431 | 4480 | 4529 | 9 44.1 |
| 987 | | 4579 | 4628 | 4677 | 4726 | 4776 | 4825 | 4874 | 4924 | 4973 | 5022 | |
| 988 | | 5071 | 5121 | 5170 | 5219 | 5269 | 5318 | 5367 | 5417 | 5466 | 5515 | |
| 989 | | 5565 | 5614 | 5664 | 5713 | 5762 | 5812 | 5861 | 5911 | 5960 | 6009 | 50 |
| 9.990 | 0.29 | 6059 | 6108 | 6158 | 6207 | 6257 | 6306 | 6355 | 6405 | 6454 | 6504 | 1 5.0 |
| 991 | | 6553 | 6603 | 6652 | 6702 | 6751 | 6801 | 6850 | 6900 | 6949 | 6999 | 2 10.0 |
| 992 | | 7048 | 7098 | 7148 | 7197 | 7247 | 7296 | 7346 | 7395 | 7445 | 7495 | 3 15.0 |
| 993 | | 7544 | 7594 | 7643 | 7693 | 7743 | 7792 | 7842 | 7891 | 7941 | 7991 | 4 20.0 |
| 994 | | 8040 | 8090 | 8140 | 8189 | 8239 | 8289 | 8338 | 8388 | 8438 | 8487 | 5 25.0 |
| 995 | | 8537 | 8587 | 8637 | 8686 | 8736 | 8786 | 8836 | 8885 | 8935 | 8985 | 6 30.0 |
| 996 | | 9035 | 9084 | 9134 | 9184 | 9234 | 9284 | 9333 | 9383 | 9433 | 9483 | 7 35.0 |
| 997 | 0.29 | 9533 | 9582 | 9632 | 9682 | 9732 | 9782 | 9832 | 9882 | 9931 | 9981 | 8 40.0 |
| 998 | 0.30 | 0031 | 0081 | 0131 | 0181 | 0231 | 0281 | 0331 | 0380 | 0430 | 0480 | 9 45.0 |
| 999 | | 0530 | 0580 | 0630 | 0680 | 0730 | 0780 | 0830 | 0880 | 0930 | 0980 | |
| 0.000 | 0.30 | 1030 | 1080 | 1130 | 1180 | 1230 | 1280 | 1330 | 1380 | 1430 | 1480 | |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log b - \log a = A$$

$$\log (a + b) = \log a + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|--------|
| 0.000 | 0.3 153 | 1530 | 1135 | 1135 | 1235 | 1235 | 1335 | 1580 | 1430 | 1430 | |
| 001 | 1530 | 1580 | 1630 | 1680 | 1731 | 1781 | 1831 | 1881 | 1931 | 1981 | |
| 002 | 2031 | 2031 | 2131 | 2182 | 2232 | 2282 | 2332 | 2382 | 2432 | 2482 | |
| 003 | 2533 | 2533 | 2633 | 2683 | 2733 | 2784 | 2834 | 2884 | 2934 | 2984 | |
| 004 | 3035 | 3085 | 3135 | 3185 | 3235 | 3286 | 3336 | 3386 | 3437 | 3487 | 50 |
| 005 | 3537 | 3587 | 3638 | 3688 | 3738 | 3789 | 3839 | 3889 | 3940 | 3990 | 1 5.0 |
| 006 | 4040 | 4091 | 4141 | 4191 | 4242 | 4292 | 4343 | 4393 | 4443 | 4494 | 2 10.0 |
| 007 | 4544 | 4595 | 4645 | 4695 | 4746 | 4796 | 4847 | 4897 | 4948 | 4998 | 3 15.0 |
| 008 | 5048 | 5099 | 5149 | 5200 | 5250 | 5301 | 5351 | 5402 | 5452 | 5503 | 4 20.0 |
| 009 | 5553 | 5604 | 5654 | 5705 | 5755 | 5806 | 5857 | 5907 | 5958 | 6008 | 5 25.0 |
| 0.010 | 0.30 6059 | 6109 | 6160 | 6211 | 6261 | 6312 | 6362 | 6413 | 6464 | 6514 | 6 30.0 |
| 011 | 6565 | 6615 | 6666 | 6717 | 6767 | 6818 | 6869 | 6919 | 6970 | 7021 | 7 35.0 |
| 012 | 7071 | 7122 | 7173 | 7224 | 7274 | 7325 | 7376 | 7426 | 7477 | 7528 | 8 40.0 |
| 013 | 7579 | 7629 | 7680 | 7731 | 7782 | 7832 | 7883 | 7934 | 7985 | 8036 | 9 45.0 |
| 014 | 8086 | 8137 | 8188 | 8239 | 8290 | 8341 | 8391 | 8442 | 8493 | 8544 | |
| 015 | 8595 | 8646 | 8696 | 8747 | 8798 | 8849 | 8900 | 8951 | 9002 | 9053 | |
| 016 | 9104 | 9155 | 9206 | 9256 | 9307 | 9358 | 9409 | 9460 | 9511 | 9562 | 51 |
| 017 | 0.30 9613 | 9664 | 9715 | 9766 | 9817 | 9868 | 9919 | 9970 | 0021 | 0072 | 1 5.1 |
| 018 | 0.31 0123 | 0174 | 0225 | 0276 | 0327 | 0379 | 0430 | 0481 | 0532 | 0583 | 2 10.2 |
| 019 | 0634 | 0685 | 0736 | 0787 | 0838 | 0889 | 0941 | 0992 | 1043 | 1094 | 3 15.3 |
| 0.020 | 0.31 1145 | 1196 | 1247 | 1299 | 1350 | 1401 | 1452 | 1503 | 1555 | 1606 | 4 20.4 |
| 021 | 1657 | 1708 | 1759 | 1811 | 1862 | 1913 | 1964 | 2016 | 2067 | 2118 | 5 25.5 |
| 022 | 2169 | 2221 | 2272 | 2323 | 2374 | 2426 | 2477 | 2528 | 2580 | 2631 | 6 30.6 |
| 023 | 2682 | 2734 | 2785 | 2836 | 2888 | 2939 | 2990 | 3042 | 3093 | 3144 | 7 35.7 |
| 024 | 3196 | 3247 | 3298 | 3350 | 3401 | 3453 | 3504 | 3555 | 3607 | 3658 | 8 40.8 |
| 025 | 3710 | 3761 | 3812 | 3864 | 3916 | 3967 | 4019 | 4070 | 4122 | 4173 | 9 45.9 |
| 026 | 4225 | 4276 | 4328 | 4379 | 4431 | 4482 | 4534 | 4585 | 4637 | 4688 | |
| 027 | 4740 | 4791 | 4843 | 4894 | 4946 | 4998 | 5049 | 5101 | 5152 | 5204 | |
| 028 | 5256 | 5307 | 5359 | 5410 | 5462 | 5514 | 5565 | 5617 | 5669 | 5720 | 52 |
| 029 | 5772 | 5822 | 5875 | 5927 | 5979 | 6030 | 6082 | 6134 | 6186 | 6237 | 1 5.2 |
| 0.030 | 0.31 6289 | 6341 | 6392 | 6444 | 6496 | 6548 | 6599 | 6651 | 6703 | 6755 | 2 10.4 |
| 031 | 6807 | 6858 | 6910 | 6962 | 7014 | 7066 | 7117 | 7169 | 7221 | 7273 | 3 15.6 |
| 032 | 7325 | 7377 | 7428 | 7480 | 7532 | 7584 | 7636 | 7688 | 7740 | 7791 | 4 20.8 |
| 033 | 7845 | 7897 | 7947 | 7999 | 8051 | 8103 | 8155 | 8207 | 8259 | 8311 | 5 26.0 |
| 034 | 8363 | 8415 | 8467 | 8519 | 8571 | 8622 | 8674 | 8726 | 8778 | 8830 | 6 31.2 |
| 035 | 8882 | 8935 | 8987 | 9039 | 9091 | 9143 | 9195 | 9247 | 9299 | 9351 | 7 36.4 |
| 036 | 9403 | 9455 | 9507 | 9559 | 9611 | 9663 | 9715 | 9768 | 9820 | 9872 | 8 41.6 |
| 037 | 0.31 9924 | 9976 | 0028 | 0080 | 0132 | 0185 | 0237 | 0289 | 0341 | 0393 | 9 46.8 |
| 038 | 0.32 0446 | 0498 | 0550 | 0602 | 0654 | 0706 | 0759 | 0811 | 0863 | 0915 | |
| 039 | 0968 | 1020 | 1072 | 1124 | 1177 | 1229 | 1281 | 1333 | 1386 | 1438 | |
| 0.040 | 0.32 1490 | 1543 | 1595 | 1647 | 1700 | 1752 | 1804 | 1857 | 1909 | 1961 | 53 |
| 041 | 2014 | 2066 | 2118 | 2171 | 2223 | 2276 | 2328 | 2380 | 2433 | 2485 | 1 5.3 |
| 042 | 2538 | 2590 | 2642 | 2695 | 2747 | 2800 | 2852 | 2905 | 2957 | 3009 | 2 10.6 |
| 043 | 3062 | 3114 | 3167 | 3219 | 3272 | 3324 | 3377 | 3429 | 3482 | 3534 | 3 15.9 |
| 044 | 3587 | 3640 | 3692 | 3745 | 3797 | 3850 | 3902 | 3955 | 4007 | 4060 | 4 21.2 |
| 045 | 4113 | 4165 | 4218 | 4270 | 4323 | 4376 | 4428 | 4481 | 4533 | 4586 | 5 26.5 |
| 046 | 4639 | 4691 | 4744 | 4797 | 4849 | 4902 | 4954 | 5007 | 5060 | 5113 | 6 31.8 |
| 047 | 5165 | 5218 | 5271 | 5324 | 5376 | 5429 | 5482 | 5535 | 5587 | 5640 | 7 37.1 |
| 048 | 5693 | 5746 | 5798 | 5851 | 5904 | 5957 | 6009 | 6062 | 6115 | 6168 | 8 42.4 |
| 049 | 6221 | 6274 | 6326 | 6379 | 6432 | 6485 | 6538 | 6591 | 6643 | 6696 | 9 47.7 |
| 0.050 | 0.32 6749 | 6802 | 6855 | 6908 | 6961 | 7014 | 7067 | 7119 | 7172 | 7225 | |
| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |

$$\log a - \log b = A$$

$$\log (a + b) = \log b + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 0.050 | 0.32 | 6749 | 6802 | 6855 | 6908 | 6961 | 7014 | 7067 | 7119 | 7172 | 7225 | |
| 051 | | 7278 | 7331 | 7384 | 7437 | 7490 | 7543 | 7596 | 7649 | 7702 | 7755 | |
| 052 | | 7808 | 7861 | 7914 | 7967 | 8020 | 8073 | 8126 | 8179 | 8232 | 8285 | |
| 053 | | 8338 | 8391 | 8444 | 8497 | 8550 | 8603 | 8656 | 8709 | 8763 | 8816 | |
| 054 | | 8869 | 8922 | 8975 | 9028 | 9081 | 9134 | 9188 | 9241 | 9294 | 9347 | 53 |
| 055 | | 9400 | 9453 | 9506 | 9560 | 9613 | 9666 | 9719 | 9772 | 9826 | 9879 | 1 5.3 |
| 056 | 0.32 | 9932 | 9985 | 0038 | 0092 | 0145 | 0198 | 0251 | 0305 | 0358 | 0411 | 2 10.6 |
| 057 | 0.33 | 0464 | 0518 | 0571 | 0624 | 0678 | 0731 | 0784 | 0838 | 0891 | 0944 | 3 15.9 |
| 058 | | 0998 | 1051 | 1104 | 1158 | 1211 | 1264 | 1318 | 1371 | 1424 | 1478 | 4 21.2 |
| 059 | | 1531 | 1585 | 1638 | 1691 | 1745 | 1798 | 1852 | 1905 | 1958 | 2012 | 5 26.5 |
| 0.060 | 0.33 | 2065 | 2119 | 2172 | 2226 | 2279 | 2333 | 2386 | 2440 | 2493 | 2547 | 6 31.8 |
| 061 | | 2600 | 2654 | 2707 | 2761 | 2814 | 2868 | 2921 | 2975 | 3028 | 3082 | 7 37.1 |
| 062 | | 3135 | 3189 | 3243 | 3296 | 3350 | 3403 | 3457 | 3511 | 3564 | 3618 | 8 42.4 |
| 063 | | 3671 | 3725 | 3779 | 3832 | 3886 | 3940 | 3993 | 4047 | 4101 | 4154 | 9 47.7 |
| 064 | | 4208 | 4262 | 4315 | 4369 | 4422 | 4476 | 4530 | 4584 | 4637 | 4691 | |
| 065 | | 4745 | 4799 | 4852 | 4906 | 4960 | 5014 | 5067 | 5121 | 5175 | 5229 | |
| 066 | | 5283 | 5336 | 5390 | 5444 | 5498 | 5552 | 5605 | 5659 | 5713 | 5767 | 54 |
| 067 | | 5821 | 5875 | 5928 | 5982 | 6036 | 6090 | 6144 | 6198 | 6252 | 6306 | 1 5.4 |
| 068 | | 6360 | 6413 | 6467 | 6521 | 6575 | 6629 | 6683 | 6737 | 6791 | 6845 | 2 10.8 |
| 069 | | 6899 | 6953 | 7007 | 7061 | 7115 | 7169 | 7223 | 7277 | 7331 | 7385 | 3 16.2 |
| 0.070 | 0.33 | 7439 | 7493 | 7547 | 7601 | 7655 | 7709 | 7763 | 7817 | 7871 | 7925 | 4 21.6 |
| 071 | | 7979 | 8033 | 8087 | 8142 | 8196 | 8250 | 8304 | 8358 | 8412 | 8466 | 5 27.0 |
| 072 | | 8520 | 8575 | 8629 | 8683 | 8737 | 8791 | 8845 | 8899 | 8954 | 9008 | 6 32.4 |
| 073 | | 9062 | 9116 | 9170 | 9225 | 9279 | 9333 | 9387 | 9442 | 9496 | 9550 | 7 37.8 |
| 074 | 0.33 | 9604 | 9658 | 9713 | 9767 | 9821 | 9876 | 9930 | 9984 | 0038 | 0093 | 8 43.2 |
| 075 | 0.34 | 0147 | 0201 | 0256 | 0310 | 0364 | 0419 | 0473 | 0527 | 0582 | 0636 | 9 48.6 |
| 076 | | 0690 | 0745 | 0799 | 0853 | 0908 | 0962 | 1017 | 1071 | 1125 | 1180 | |
| 077 | | 1234 | 1289 | 1343 | 1398 | 1452 | 1506 | 1561 | 1615 | 1670 | 1724 | 55 |
| 078 | | 1779 | 1833 | 1888 | 1942 | 1997 | 2051 | 2106 | 2160 | 2215 | 2269 | 1 5.5 |
| 079 | | 2324 | 2378 | 2433 | 2487 | 2542 | 2597 | 2651 | 2706 | 2760 | 2815 | 2 11.0 |
| 0.080 | 0.34 | 2869 | 2924 | 2979 | 3033 | 3088 | 3142 | 3197 | 3252 | 3306 | 3361 | 3 16.5 |
| 081 | | 3416 | 3470 | 3525 | 3580 | 3634 | 3689 | 3744 | 3798 | 3853 | 3908 | 4 22.0 |
| 082 | | 3962 | 4017 | 4072 | 4127 | 4181 | 4236 | 4291 | 4346 | 4400 | 4455 | 5 27.5 |
| 083 | | 4510 | 4565 | 4619 | 4674 | 4729 | 4784 | 4838 | 4893 | 4948 | 5003 | 6 33.0 |
| 084 | | 5058 | 5113 | 5167 | 5222 | 5277 | 5332 | 5387 | 5442 | 5496 | 5551 | 7 38.5 |
| 085 | | 5606 | 5661 | 5716 | 5771 | 5826 | 5881 | 5936 | 5990 | 6045 | 6100 | 8 44.0 |
| 086 | | 6155 | 6210 | 6265 | 6320 | 6375 | 6430 | 6485 | 6540 | 6595 | 6650 | 9 49.5 |
| 087 | | 6705 | 6760 | 6815 | 6870 | 6925 | 6980 | 7035 | 7090 | 7145 | 7200 | |
| 088 | | 7255 | 7310 | 7365 | 7420 | 7475 | 7530 | 7585 | 7641 | 7696 | 7751 | |
| 089 | | 7806 | 7861 | 7916 | 7971 | 8026 | 8081 | 8137 | 8192 | 8247 | 8302 | 56 |
| 0.090 | 0.34 | 8357 | 8412 | 8468 | 8523 | 8578 | 8633 | 8688 | 8743 | 8799 | 8854 | 1 5.6 |
| 091 | | 8909 | 8964 | 9020 | 9075 | 9130 | 9185 | 9241 | 9296 | 9351 | 9406 | 2 11.2 |
| 092 | 0.34 | 9462 | 9517 | 9572 | 9627 | 9683 | 9738 | 9793 | 9849 | 9904 | 9959 | 3 16.8 |
| 093 | 0.35 | 0015 | 0070 | 0125 | 0181 | 0236 | 0291 | 0347 | 0402 | 0457 | 0513 | 4 22.4 |
| 094 | | 0568 | 0624 | 0679 | 0734 | 0790 | 0845 | 0901 | 0956 | 1012 | 1067 | 5 28.0 |
| 095 | | 1122 | 1178 | 1233 | 1289 | 1344 | 1400 | 1455 | 1511 | 1566 | 1622 | 6 33.6 |
| 096 | | 1677 | 1733 | 1788 | 1844 | 1899 | 1955 | 2010 | 2066 | 2121 | 2177 | 7 39.2 |
| 097 | | 2233 | 2288 | 2344 | 2399 | 2455 | 2510 | 2566 | 2622 | 2677 | 2733 | 8 44.8 |
| 098 | | 2788 | 2844 | 2900 | 2955 | 3011 | 3067 | 3122 | 3178 | 3234 | 3289 | 9 50.4 |
| 099 | | 3345 | 3401 | 3456 | 3512 | 3568 | 3623 | 3679 | 3735 | 3790 | 3846 | |
| 0.100 | 0.35 | 3902 | 3958 | 4013 | 4069 | 4125 | 4181 | 4236 | 4292 | 4348 | 4404 | |

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = A$$

$$\log (a + b) = \log b + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|--------|
| 0.100 | 0.35 3902 | 3958 | 4013 | 4069 | 4125 | 4181 | 4236 | 4292 | 4348 | 4404 | |
| 101 | 4459 | 4515 | 4571 | 4627 | 4683 | 4738 | 4794 | 4850 | 4906 | 4962 | 55 |
| 102 | 5018 | 5073 | 5129 | 5185 | 5241 | 5297 | 5353 | 5409 | 5465 | 5520 | 1 5.5 |
| 103 | 5576 | 5632 | 5688 | 5744 | 5800 | 5856 | 5912 | 5968 | 6024 | 6080 | 2 11.0 |
| 104 | 6136 | 6192 | 6248 | 6304 | 6360 | 6416 | 6472 | 6528 | 6584 | 6640 | 3 16.5 |
| 105 | 6696 | 6752 | 6808 | 6864 | 6920 | 6976 | 7032 | 7088 | 7144 | 7200 | 4 22.0 |
| 106 | 7256 | 7312 | 7368 | 7424 | 7480 | 7536 | 7593 | 7649 | 7705 | 7761 | 5 27.5 |
| 107 | 7817 | 7873 | 7929 | 7985 | 8042 | 8098 | 8154 | 8210 | 8266 | 8322 | 6 33.0 |
| 108 | 8379 | 8435 | 8491 | 8547 | 8603 | 8660 | 8716 | 8772 | 8828 | 8884 | 7 38.5 |
| 109 | 8941 | 8997 | 9053 | 9109 | 9166 | 9222 | 9278 | 9335 | 9391 | 9447 | 8 44.0 |
| | | | | | | | | | | | 9 49.5 |
| 0.110 | 0.35 9503 | 9560 | 9616 | 9672 | 9729 | 9785 | 9841 | 9898 | 9954 | 0010 | |
| 111 | 0.36 0067 | 0123 | 0179 | 0236 | 0292 | 0349 | 0405 | 0461 | 0518 | 0574 | 56 |
| 112 | 0630 | 0687 | 0743 | 0800 | 0856 | 0913 | 0969 | 1026 | 1082 | 1138 | 1 5.6 |
| 113 | 1195 | 1251 | 1308 | 1364 | 1421 | 1477 | 1534 | 1590 | 1647 | 1703 | 2 11.2 |
| 114 | 1760 | 1816 | 1873 | 1929 | 1986 | 2043 | 2099 | 2156 | 2212 | 2269 | 3 16.8 |
| 115 | 2325 | 2382 | 2439 | 2495 | 2552 | 2608 | 2665 | 2722 | 2778 | 2835 | 4 22.4 |
| 116 | 2891 | 2948 | 3005 | 3061 | 3118 | 3175 | 3231 | 3288 | 3345 | 3401 | 5 28.0 |
| 117 | 3458 | 3515 | 3572 | 3628 | 3685 | 3742 | 3798 | 3855 | 3912 | 3969 | 6 33.6 |
| 118 | 4025 | 4082 | 4139 | 4196 | 4252 | 4309 | 4366 | 4423 | 4480 | 4536 | 7 39.2 |
| 119 | 4553 | 4610 | 4667 | 4724 | 4780 | 4837 | 4894 | 4951 | 5008 | 5105 | 8 44.8 |
| | | | | | | | | | | | 9 50.4 |
| 0.120 | 0.36 5162 | 5218 | 5275 | 5332 | 5389 | 5446 | 5503 | 5560 | 5617 | 5674 | |
| 121 | 5730 | 5787 | 5844 | 5901 | 5958 | 6015 | 6072 | 6129 | 6186 | 6243 | 57 |
| 122 | 6300 | 6357 | 6414 | 6471 | 6528 | 6585 | 6642 | 6699 | 6756 | 6813 | 1 5.7 |
| 123 | 6870 | 6927 | 6984 | 7041 | 7098 | 7155 | 7212 | 7269 | 7326 | 7384 | 2 11.4 |
| 124 | 7441 | 7498 | 7555 | 7612 | 7669 | 7726 | 7783 | 7840 | 7898 | 7955 | 3 17.1 |
| 125 | 8012 | 8069 | 8126 | 8183 | 8240 | 8298 | 8355 | 8412 | 8469 | 8526 | 4 22.8 |
| 126 | 8584 | 8641 | 8698 | 8755 | 8812 | 8870 | 8927 | 8984 | 9041 | 9099 | 5 28.5 |
| 127 | 9156 | 9213 | 9270 | 9328 | 9385 | 9442 | 9500 | 9557 | 9614 | 9671 | 6 34.2 |
| 128 | 0.36 9729 | 9786 | 9843 | 9901 | 9958 | 0015 | 0073 | 0130 | 0187 | 0245 | 7 39.9 |
| 129 | 0.37 0302 | 0360 | 0417 | 0474 | 0532 | 0589 | 0646 | 0704 | 0761 | 0819 | 8 45.6 |
| | | | | | | | | | | | 9 51.3 |
| 0.130 | 0.37 0876 | 0934 | 0991 | 1048 | 1106 | 1163 | 1221 | 1278 | 1336 | 1393 | |
| 131 | 1451 | 1508 | 1566 | 1623 | 1681 | 1738 | 1796 | 1853 | 1911 | 1968 | 58 |
| 132 | 2026 | 2083 | 2141 | 2198 | 2256 | 2314 | 2371 | 2429 | 2486 | 2544 | 1 5.8 |
| 133 | 2602 | 2659 | 2717 | 2774 | 2832 | 2890 | 2947 | 3005 | 3062 | 3120 | 2 11.6 |
| 134 | 3178 | 3235 | 3293 | 3351 | 3408 | 3466 | 3524 | 3581 | 3639 | 3697 | 3 17.4 |
| 135 | 3755 | 3812 | 3870 | 3928 | 3985 | 4043 | 4101 | 4159 | 4216 | 4274 | 4 23.2 |
| 136 | 4332 | 4390 | 4448 | 4505 | 4563 | 4621 | 4679 | 4736 | 4794 | 4852 | 5 29.0 |
| 137 | 4910 | 4968 | 5026 | 5083 | 5141 | 5199 | 5257 | 5315 | 5373 | 5431 | 6 34.8 |
| 138 | 5488 | 5546 | 5604 | 5662 | 5720 | 5778 | 5836 | 5894 | 5952 | 6010 | 7 40.6 |
| 139 | 6067 | 6125 | 6183 | 6241 | 6299 | 6357 | 6415 | 6473 | 6531 | 6589 | 8 46.4 |
| | | | | | | | | | | | 9 52.2 |
| 0.140 | 0.37 6647 | 6705 | 6763 | 6821 | 6879 | 6937 | 6995 | 7053 | 7111 | 7169 | |
| 141 | 7227 | 7285 | 7343 | 7401 | 7459 | 7518 | 7576 | 7634 | 7692 | 7750 | 59 |
| 142 | 7808 | 7866 | 7924 | 7982 | 8040 | 8099 | 8157 | 8215 | 8273 | 8331 | 1 5.9 |
| 143 | 8389 | 8447 | 8506 | 8564 | 8622 | 8680 | 8738 | 8797 | 8855 | 8913 | 2 11.8 |
| 144 | 8971 | 9029 | 9088 | 9146 | 9204 | 9262 | 9321 | 9379 | 9437 | 9495 | 3 17.7 |
| 145 | 0.37 9554 | 9612 | 9670 | 9728 | 9787 | 9845 | 9903 | 9962 | 0020 | 0078 | 4 23.6 |
| 146 | 0.38 0137 | 0195 | 0253 | 0312 | 0370 | 0428 | 0487 | 0545 | 0603 | 0662 | 5 29.5 |
| 147 | 0720 | 0778 | 0837 | 0895 | 0954 | 1012 | 1070 | 1129 | 1187 | 1246 | 6 35.4 |
| 148 | 1304 | 1363 | 1421 | 1480 | 1538 | 1596 | 1655 | 1713 | 1772 | 1830 | 7 41.3 |
| 149 | 1889 | 1947 | 2006 | 2064 | 2123 | 2181 | 2240 | 2298 | 2357 | 2416 | 8 47.2 |
| | | | | | | | | | | | 9 53.1 |
| 0.150 | 0.38 2474 | 2533 | 2591 | 2650 | 2708 | 2767 | 2825 | 2884 | 2943 | 3001 | |

| A | B 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|-----|---|---|---|---|-----------------------------|---|---|---|---|-----|
| $\log a - \log b = A$ | | | | | | $\log a - \log b = B$ | | | | | |
| $\log (a + b) = \log b + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | |

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 0.150 | 0.38 | 2474 | 2533 | 2591 | 2650 | 2708 | 2767 | 2825 | 2884 | 2943 | 3001 | |
| 151 | | 3060 | 3118 | 3177 | 3236 | 3294 | 3353 | 3412 | 3470 | 3529 | 3588 | 58 |
| 152 | | 3646 | 3705 | 3764 | 3822 | 3881 | 3940 | 3998 | 4057 | 4116 | 4174 | 1 5.8 |
| 153 | | 4233 | 4292 | 4351 | 4409 | 4468 | 4527 | 4585 | 4644 | 4703 | 4762 | 2 11.6 |
| 154 | | 4821 | 4879 | 4938 | 4997 | 5056 | 5114 | 5173 | 5232 | 5291 | 5350 | 3 17.4 |
| 155 | | 5409 | 5467 | 5526 | 5585 | 5644 | 5703 | 5762 | 5820 | 5879 | 5938 | 4 23.2 |
| 156 | | 5997 | 6056 | 6115 | 6174 | 6233 | 6292 | 6351 | 6409 | 6468 | 6527 | 5 29.0 |
| 157 | | 6586 | 6645 | 6704 | 6763 | 6822 | 6881 | 6940 | 6999 | 7058 | 7117 | 6 34.8 |
| 158 | | 7176 | 7235 | 7294 | 7353 | 7412 | 7471 | 7530 | 7589 | 7648 | 7707 | 7 40.6 |
| 159 | | 7766 | 7825 | 7884 | 7943 | 8002 | 8062 | 8121 | 8180 | 8239 | 8298 | 8 46.4 |
| 0.160 | 0.38 | 8357 | 8416 | 8475 | 8534 | 8593 | 8653 | 8712 | 8771 | 8830 | 8889 | 9 52.2 |
| 161 | | 8948 | 9007 | 9067 | 9126 | 9185 | 9244 | 9303 | 9363 | 9422 | 9481 | 59 |
| 162 | 0.38 | 9540 | 9599 | 9659 | 9718 | 9777 | 9836 | 9896 | 9955 | 0014 | 0073 | 1 5.9 |
| 163 | 0.39 | 0133 | 0192 | 0251 | 0311 | 0370 | 0429 | 0488 | 0548 | 0607 | 0666 | 2 11.8 |
| 164 | | 0726 | 0785 | 0844 | 0904 | 0963 | 1022 | 1082 | 1141 | 1201 | 1260 | 3 17.7 |
| 165 | | 1319 | 1379 | 1438 | 1497 | 1557 | 1616 | 1676 | 1735 | 1795 | 1854 | 4 23.6 |
| 166 | | 1913 | 1973 | 2032 | 2092 | 2151 | 2211 | 2270 | 2330 | 2389 | 2449 | 5 29.5 |
| 167 | | 2508 | 2568 | 2627 | 2687 | 2746 | 2806 | 2865 | 2925 | 2984 | 3044 | 6 35.4 |
| 168 | | 3103 | 3163 | 3222 | 3282 | 3342 | 3401 | 3461 | 3520 | 3580 | 3640 | 7 41.3 |
| 169 | | 3699 | 3759 | 3818 | 3878 | 3938 | 3997 | 4057 | 4117 | 4176 | 4236 | 8 47.2 |
| 0.170 | 0.39 | 4296 | 4355 | 4415 | 4475 | 4534 | 4594 | 4654 | 4713 | 4773 | 4833 | 9 53.1 |
| 171 | | 4892 | 4952 | 5012 | 5072 | 5131 | 5191 | 5251 | 5311 | 5370 | 5430 | 60 |
| 172 | | 5490 | 5550 | 5609 | 5669 | 5729 | 5789 | 5849 | 5908 | 5968 | 6028 | 1 6.0 |
| 173 | | 6088 | 6148 | 6208 | 6267 | 6327 | 6387 | 6447 | 6507 | 6567 | 6627 | 2 12.0 |
| 174 | | 6686 | 6746 | 6806 | 6866 | 6926 | 6986 | 7046 | 7106 | 7166 | 7226 | 3 18.0 |
| 175 | | 7286 | 7346 | 7405 | 7465 | 7525 | 7585 | 7645 | 7705 | 7765 | 7825 | 4 24.0 |
| 176 | | 7885 | 7945 | 8005 | 8065 | 8125 | 8185 | 8245 | 8305 | 8365 | 8425 | 5 30.0 |
| 177 | | 8485 | 8546 | 8606 | 8666 | 8726 | 8786 | 8846 | 8906 | 8966 | 9026 | 6 36.0 |
| 178 | | 9086 | 9146 | 9206 | 9267 | 9327 | 9387 | 9447 | 9507 | 9567 | 9627 | 7 42.0 |
| 179 | 0.39 | 9688 | 9748 | 9808 | 9868 | 9928 | 9988 | 0049 | 0109 | 0169 | 0229 | 8 48.0 |
| 0.180 | 0.40 | 0289 | 0350 | 0410 | 0470 | 0530 | 0591 | 0651 | 0711 | 0771 | 0832 | 9 54.0 |
| 181 | | 0892 | 0952 | 1012 | 1073 | 1133 | 1193 | 1254 | 1314 | 1374 | 1435 | 61 |
| 182 | | 1495 | 1555 | 1616 | 1676 | 1736 | 1797 | 1857 | 1917 | 1978 | 2038 | 1 6.1 |
| 183 | | 2098 | 2159 | 2219 | 2280 | 2340 | 2400 | 2461 | 2521 | 2582 | 2642 | 2 12.2 |
| 184 | | 2703 | 2763 | 2823 | 2884 | 2944 | 3005 | 3065 | 3126 | 3186 | 3247 | 3 18.3 |
| 185 | | 3307 | 3368 | 3428 | 3489 | 3549 | 3610 | 3670 | 3731 | 3791 | 3852 | 4 24.4 |
| 186 | | 3912 | 3973 | 4033 | 4094 | 4155 | 4215 | 4276 | 4337 | 4397 | 4457 | 5 30.5 |
| 187 | | 4518 | 4579 | 4640 | 4700 | 4761 | 4821 | 4882 | 4942 | 5003 | 5064 | 6 36.6 |
| 188 | | 5124 | 5185 | 5246 | 5306 | 5367 | 5428 | 5488 | 5549 | 5610 | 5670 | 7 42.7 |
| 189 | | 5731 | 5792 | 5853 | 5913 | 5974 | 6035 | 6096 | 6156 | 6217 | 6278 | 8 48.8 |
| 0.190 | 0.40 | 6339 | 6399 | 6460 | 6521 | 6582 | 6642 | 6703 | 6764 | 6825 | 6886 | 9 54.9 |
| 191 | | 6947 | 7007 | 7068 | 7129 | 7190 | 7251 | 7312 | 7372 | 7433 | 7494 | 62 |
| 192 | | 7555 | 7616 | 7677 | 7738 | 7799 | 7859 | 7920 | 7981 | 8042 | 8103 | 1 6.2 |
| 193 | | 8164 | 8225 | 8286 | 8347 | 8408 | 8469 | 8530 | 8591 | 8652 | 8713 | 2 12.4 |
| 194 | | 8774 | 8835 | 8896 | 8957 | 9018 | 9079 | 9140 | 9201 | 9262 | 9323 | 3 18.6 |
| 195 | | 9384 | 9445 | 9506 | 9567 | 9628 | 9689 | 9750 | 9811 | 9872 | 9933 | 4 24.8 |
| 196 | 0.40 | 9994 | 0056 | 0117 | 0178 | 0239 | 0300 | 0361 | 0422 | 0483 | 0545 | 5 31.0 |
| 197 | 0.41 | 0606 | 0667 | 0728 | 0789 | 0850 | 0911 | 0973 | 1034 | 1095 | 1156 | 6 37.2 |
| 198 | | 1217 | 1279 | 1340 | 1401 | 1462 | 1524 | 1585 | 1646 | 1707 | 1768 | 7 43.4 |
| 199 | | 1830 | 1891 | 1952 | 2014 | 2075 | 2136 | 2197 | 2259 | 2320 | 2381 | 8 49.6 |
| 0.200 | 0.41 | 2443 | 2504 | 2565 | 2627 | 2688 | 2749 | 2811 | 2872 | 2933 | 2995 | 9 55.8 |

$$\log a - \log b = A$$

$$\log (a + b) = \log b + B$$

$$\log a - \log b = B$$

$$\log (a - b) = \log b + A$$

ADDITIONS- UND SUBTRACTIONS-LOGARITHMEN.

| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----------------------------|------|------|------|------|------|-----------------------------|------|------|------|------|------|--------|
| 0.200 | 0.41 | 2443 | 2504 | 2565 | 2627 | 2688 | 2749 | 2811 | 2872 | 2933 | 2995 | |
| 201 | | 3056 | 3117 | 3179 | 3240 | 3302 | 3363 | 3424 | 3486 | 3547 | 3609 | |
| 202 | | 3670 | 3731 | 3793 | 3854 | 3916 | 3977 | 4039 | 4100 | 4162 | 4223 | |
| 203 | | 4284 | 4346 | 4407 | 4469 | 4530 | 4592 | 4653 | 4715 | 4776 | 4838 | |
| 204 | | 4900 | 4961 | 5023 | 5084 | 5146 | 5207 | 5269 | 5330 | 5392 | 5454 | 61 |
| 205 | | 5515 | 5577 | 5638 | 5700 | 5761 | 5823 | 5885 | 5946 | 6008 | 6070 | 1 12.2 |
| 206 | | 6131 | 6193 | 6255 | 6316 | 6378 | 6440 | 6501 | 6563 | 6625 | 6686 | 2 12.2 |
| 207 | | 6743 | 6810 | 6871 | 6933 | 6995 | 7056 | 7118 | 7180 | 7242 | 7303 | 3 13.3 |
| 208 | | 7365 | 7427 | 7489 | 7550 | 7612 | 7674 | 7736 | 7798 | 7859 | 7921 | 4 24.4 |
| 209 | | 7983 | 8045 | 8107 | 8168 | 8230 | 8292 | 8354 | 8416 | 8478 | 8539 | 5 30.5 |
| 0.210 | 0.41 | 8601 | 8663 | 8725 | 8787 | 8849 | 8911 | 8972 | 9034 | 9096 | 9158 | 6 36.6 |
| 211 | | 9220 | 9282 | 9344 | 9406 | 9468 | 9530 | 9592 | 9654 | 9716 | 9778 | 7 42.7 |
| 212 | 0.41 | 9839 | 9901 | 9963 | 0025 | 0087 | 0149 | 0211 | 0273 | 0335 | 0397 | 8 48.8 |
| 213 | 0.42 | 0459 | 0521 | 0583 | 0646 | 0708 | 0770 | 0832 | 0894 | 0956 | 1018 | 9 54.9 |
| 214 | | 1080 | 1142 | 1204 | 1266 | 1328 | 1390 | 1452 | 1515 | 1577 | 1639 | |
| 215 | | 1701 | 1763 | 1825 | 1887 | 1949 | 2012 | 2074 | 2136 | 2198 | 2260 | 62 |
| 216 | | 2323 | 2385 | 2447 | 2509 | 2571 | 2633 | 2696 | 2758 | 2820 | 2882 | 1 6.2 |
| 217 | | 2945 | 3007 | 3069 | 3131 | 3194 | 3256 | 3318 | 3380 | 3443 | 3505 | 2 12.4 |
| 218 | | 3567 | 3630 | 3692 | 3754 | 3816 | 3879 | 3941 | 4003 | 4066 | 4128 | 3 18.6 |
| 219 | | 4190 | 4253 | 4315 | 4378 | 4440 | 4502 | 4565 | 4627 | 4689 | 4752 | 4 24.8 |
| 0.220 | 0.42 | 4814 | 4877 | 4939 | 5001 | 5064 | 5126 | 5189 | 5251 | 5314 | 5376 | 5 31.0 |
| 221 | | 5438 | 5501 | 5563 | 5626 | 5688 | 5751 | 5813 | 5876 | 5938 | 6001 | 6 37.2 |
| 222 | | 6063 | 6126 | 6188 | 6251 | 6313 | 6376 | 6438 | 6501 | 6564 | 6626 | 7 43.4 |
| 223 | | 6689 | 6751 | 6814 | 6876 | 6939 | 7001 | 7064 | 7127 | 7189 | 7252 | 8 49.6 |
| 224 | | 7315 | 7377 | 7440 | 7502 | 7565 | 7628 | 7690 | 7753 | 7816 | 7878 | 9 55.8 |
| 225 | | 7941 | 8004 | 8066 | 8129 | 8192 | 8254 | 8317 | 8380 | 8442 | 8505 | |
| 226 | | 8568 | 8631 | 8693 | 8756 | 8819 | 8882 | 8944 | 9007 | 9070 | 9133 | |
| 227 | | 9195 | 9258 | 9321 | 9384 | 9447 | 9509 | 9572 | 9635 | 9698 | 9761 | 63 |
| 228 | 0.42 | 9823 | 9886 | 9949 | 0012 | 0075 | 0138 | 0201 | 0263 | 0326 | 0389 | 1 6.3 |
| 229 | 0.43 | 0432 | 0495 | 0558 | 0621 | 0684 | 0747 | 0810 | 0873 | 0936 | 1018 | 2 12.6 |
| 0.230 | 0.43 | 1081 | 1144 | 1207 | 1270 | 1333 | 1396 | 1459 | 1522 | 1585 | 1648 | 3 18.9 |
| 231 | | 1711 | 1774 | 1837 | 1900 | 1963 | 2026 | 2089 | 2152 | 2215 | 2278 | 4 25.2 |
| 232 | | 2341 | 2404 | 2467 | 2530 | 2593 | 2656 | 2719 | 2782 | 2846 | 2909 | 5 31.5 |
| 233 | | 2972 | 3035 | 3098 | 3161 | 3224 | 3287 | 3350 | 3414 | 3477 | 3540 | 6 37.8 |
| 234 | | 3603 | 3666 | 3729 | 3792 | 3856 | 3919 | 3982 | 4045 | 4108 | 4172 | 7 44.1 |
| 235 | | 4235 | 4298 | 4361 | 4424 | 4488 | 4551 | 4614 | 4677 | 4741 | 4804 | 8 50.4 |
| 236 | | 4867 | 4930 | 4994 | 5057 | 5120 | 5184 | 5247 | 5310 | 5373 | 5437 | 9 56.7 |
| 237 | | 5500 | 5563 | 5627 | 5690 | 5753 | 5817 | 5880 | 5943 | 6007 | 6070 | |
| 238 | | 6133 | 6197 | 6260 | 6324 | 6387 | 6450 | 6514 | 6577 | 6641 | 6704 | |
| 239 | | 6767 | 6831 | 6894 | 6958 | 7021 | 7085 | 7148 | 7211 | 7275 | 7338 | 64 |
| 0.240 | 0.43 | 7402 | 7465 | 7529 | 7592 | 7656 | 7719 | 7783 | 7846 | 7910 | 7973 | 1 6.4 |
| 241 | | 8037 | 8100 | 8164 | 8227 | 8291 | 8355 | 8418 | 8482 | 8545 | 8609 | 2 12.8 |
| 242 | | 8672 | 8736 | 8800 | 8863 | 8927 | 8990 | 9054 | 9118 | 9181 | 9245 | 3 19.2 |
| 243 | | 9308 | 9372 | 9436 | 9499 | 9563 | 9627 | 9690 | 9754 | 9818 | 9881 | 4 25.6 |
| 244 | 0.43 | 9945 | 0009 | 0072 | 0136 | 0200 | 0264 | 0327 | 0391 | 0455 | 0518 | 5 32.0 |
| 245 | 0.44 | 0582 | 0646 | 0710 | 0773 | 0837 | 0901 | 0965 | 1029 | 1092 | 1156 | 6 38.4 |
| 246 | | 1220 | 1284 | 1348 | 1411 | 1475 | 1539 | 1603 | 1667 | 1730 | 1794 | 7 44.8 |
| 247 | | 1858 | 1922 | 1986 | 2050 | 2114 | 2177 | 2241 | 2305 | 2369 | 2433 | 8 51.2 |
| 248 | | 2497 | 2561 | 2625 | 2689 | 2752 | 2816 | 2880 | 2944 | 3008 | 3072 | 9 57.6 |
| 249 | | 3136 | 3200 | 3264 | 3328 | 3392 | 3456 | 3520 | 3584 | 3648 | 3712 | |
| 0.250 | 0.44 | 3776 | 3840 | 3904 | 3968 | 4032 | 4096 | 4160 | 4224 | 4288 | 4352 | |
| A | B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log a - \log b = A$ | | | | | | $\log a - \log b = B$ | | | | | | |
| $\log (a + b) = \log b + B$ | | | | | | $\log (a - b) = \log b + A$ | | | | | | |

B.

LOGARITHMS

FOR

SUBTRACTION

WHERE THE DIFFERENCE OF THE GIVEN
LOGARITHMS IS GREATER THAN
0.420000.

Formulae

Given $\log a$ and $\log b$, where $\log a > \log b$

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. | |
|-------|------|------|------|------|------|------|------|------|------|------|------|-----|------|
| 0.400 | 9.77 | 9519 | 9585 | 9651 | 9717 | 9784 | 9850 | 9916 | 9982 | 0048 | 0113 | | |
| 401 | 9.78 | 0179 | 0245 | 0311 | 0377 | 0443 | 0508 | 0574 | 0640 | 0706 | 0771 | 66 | 65 |
| 402 | | 0837 | 0903 | 0968 | 1034 | 1099 | 1165 | 1230 | 1296 | 1361 | 1427 | 1 | 6.6 |
| 403 | | 1492 | 1557 | 1623 | 1688 | 1753 | 1819 | 1884 | 1949 | 2014 | 2080 | 2 | 13.2 |
| 404 | | 2145 | 2210 | 2275 | 2340 | 2405 | 2470 | 2535 | 2600 | 2665 | 2730 | 3 | 19.8 |
| 405 | | 2795 | 2860 | 2925 | 2990 | 3054 | 3119 | 3184 | 3249 | 3313 | 3378 | 4 | 26.4 |
| 406 | | 3443 | 3507 | 3572 | 3636 | 3701 | 3766 | 3830 | 3895 | 3959 | 4024 | 5 | 33.0 |
| 407 | | 4088 | 4152 | 4217 | 4281 | 4345 | 4410 | 4474 | 4538 | 4602 | 4667 | 6 | 39.6 |
| 408 | | 4731 | 4795 | 4859 | 4923 | 4987 | 5051 | 5115 | 5179 | 5243 | 5307 | 7 | 46.2 |
| 409 | | 5371 | 5435 | 5499 | 5563 | 5627 | 5690 | 5754 | 5818 | 5882 | 5945 | 8 | 52.8 |
| | | | | | | | | | | | | 9 | 59.4 |
| 0.410 | 9.78 | 6009 | 6073 | 6136 | 6200 | 6264 | 6327 | 6391 | 6454 | 6518 | 6581 | | |
| 411 | | 6645 | 6708 | 6772 | 6835 | 6898 | 6962 | 7025 | 7088 | 7151 | 7215 | 64 | 63 |
| 412 | | 7278 | 7341 | 7404 | 7467 | 7531 | 7594 | 7657 | 7720 | 7783 | 7846 | 1 | 6.4 |
| 413 | | 7909 | 7972 | 8035 | 8098 | 8160 | 8223 | 8286 | 8349 | 8412 | 8474 | 2 | 12.8 |
| 414 | | 8537 | 8600 | 8663 | 8725 | 8788 | 8851 | 8913 | 8976 | 9038 | 9101 | 3 | 19.2 |
| 415 | | 9163 | 9226 | 9288 | 9351 | 9413 | 9475 | 9538 | 9600 | 9662 | 9725 | 4 | 25.6 |
| 416 | 9.78 | 9787 | 9849 | 9912 | 9974 | 0036 | 0098 | 0160 | 0222 | 0284 | 0346 | 5 | 32.0 |
| 417 | | | | | | | | | | | | 6 | 38.4 |
| 418 | 9.79 | 0409 | 0471 | 0533 | 0594 | 0656 | 0718 | 0780 | 0842 | 0904 | 0966 | 7 | 44.8 |
| 419 | | 1028 | 1089 | 1151 | 1213 | 1275 | 1336 | 1398 | 1460 | 1521 | 1583 | 8 | 51.2 |
| | | 1644 | 1706 | 1768 | 1829 | 1891 | 1952 | 2013 | 2075 | 2136 | 2198 | 9 | 57.6 |
| 0.420 | 9.79 | 2259 | 2320 | 2382 | 2443 | 2504 | 2565 | 2627 | 2688 | 2749 | 2810 | | |
| 421 | | 2871 | 2932 | 2993 | 3054 | 3116 | 3177 | 3238 | 3298 | 3359 | 3420 | 62 | 61 |
| 422 | | 3481 | 3542 | 3603 | 3664 | 3725 | 3785 | 3846 | 3907 | 3968 | 4028 | 1 | 6.2 |
| 423 | | 4089 | 4150 | 4210 | 4271 | 4331 | 4392 | 4453 | 4513 | 4574 | 4634 | 2 | 12.4 |
| 424 | | 4694 | 4755 | 4815 | 4876 | 4936 | 4996 | 5057 | 5117 | 5177 | 5238 | 3 | 18.6 |
| 425 | | 5298 | 5358 | 5418 | 5478 | 5538 | 5599 | 5659 | 5719 | 5779 | 5839 | 4 | 24.8 |
| 426 | | 5899 | 5959 | 6019 | 6079 | 6139 | 6198 | 6258 | 6318 | 6378 | 6438 | 5 | 31.0 |
| 427 | | 6498 | 6557 | 6617 | 6677 | 6737 | 6796 | 6856 | 6915 | 6975 | 7035 | 6 | 37.2 |
| 428 | | 7094 | 7154 | 7213 | 7273 | 7332 | 7392 | 7451 | 7511 | 7570 | 7629 | 7 | 43.4 |
| 429 | | 7689 | 7748 | 7807 | 7867 | 7926 | 7985 | 8044 | 8103 | 8163 | 8222 | 8 | 49.6 |
| | | | | | | | | | | | | 9 | 55.8 |
| 0.430 | 9.79 | 8231 | 8300 | 8369 | 8438 | 8507 | 8576 | 8645 | 8694 | 8753 | 8812 | | |
| 431 | | 8871 | 8939 | 9008 | 9076 | 9145 | 9213 | 9282 | 9350 | 9419 | 9487 | 60 | 59 |
| 432 | 9.79 | 9459 | 9518 | 9576 | 9635 | 9694 | 9752 | 9811 | 9869 | 9928 | 9986 | 1 | 6.0 |
| 433 | | 9800 | 9859 | 9918 | 9976 | 0035 | 0094 | 0153 | 0212 | 0270 | 0329 | 2 | 12.0 |
| 434 | | 0388 | 0446 | 0505 | 0564 | 0623 | 0682 | 0741 | 0800 | 0859 | 0918 | 3 | 18.0 |
| 435 | | 0977 | 1036 | 1095 | 1154 | 1213 | 1272 | 1331 | 1390 | 1449 | 1508 | 4 | 24.0 |
| 436 | | 1567 | 1626 | 1685 | 1744 | 1803 | 1862 | 1921 | 1980 | 2039 | 2098 | 5 | 30.0 |
| 437 | | 2157 | 2216 | 2275 | 2334 | 2393 | 2452 | 2511 | 2570 | 2629 | 2688 | 6 | 36.0 |
| 438 | | 2748 | 2807 | 2866 | 2925 | 2984 | 3043 | 3102 | 3161 | 3220 | 3279 | 7 | 42.0 |
| 439 | | 3338 | 3397 | 3456 | 3515 | 3574 | 3633 | 3692 | 3751 | 3810 | 3869 | 8 | 48.0 |
| | | | | | | | | | | | | 9 | 54.0 |
| 0.440 | 9.80 | 4086 | 4143 | 4200 | 4257 | 4314 | 4371 | 4428 | 4485 | 4542 | 4598 | | |
| 441 | | 4655 | 4712 | 4769 | 4826 | 4882 | 4939 | 4996 | 5052 | 5109 | 5166 | 58 | 57 |
| 442 | | 5222 | 5279 | 5335 | 5392 | 5448 | 5505 | 5561 | 5618 | 5674 | 5731 | 1 | 5.8 |
| 443 | | 5787 | 5844 | 5900 | 5956 | 6013 | 6069 | 6125 | 6181 | 6238 | 6294 | 2 | 11.6 |
| 444 | | 6350 | 6406 | 6462 | 6519 | 6575 | 6631 | 6687 | 6743 | 6799 | 6855 | 3 | 17.4 |
| 445 | | 6911 | 6967 | 7023 | 7079 | 7135 | 7191 | 7246 | 7302 | 7358 | 7414 | 4 | 23.2 |
| 446 | | 7470 | 7526 | 7581 | 7637 | 7693 | 7748 | 7804 | 7860 | 7915 | 7971 | 5 | 29.0 |
| 447 | | 8027 | 8082 | 8138 | 8193 | 8249 | 8304 | 8360 | 8415 | 8471 | 8526 | 6 | 34.8 |
| 448 | | 8582 | 8637 | 8692 | 8748 | 8803 | 8858 | 8914 | 8969 | 9024 | 9079 | 7 | 40.6 |
| 449 | | 9134 | 9190 | 9245 | 9300 | 9355 | 9410 | 9465 | 9520 | 9575 | 9630 | 8 | 46.4 |
| | | | | | | | | | | | | 9 | 52.2 |
| 0.450 | 9.80 | 9685 | 9740 | 9795 | 9850 | 9905 | 9960 | 0015 | 0070 | 0125 | 0179 | | |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| 0.450 | 9.80 | 9685 | 9740 | 9795 | 9850 | 9905 | 9960 | 0015 | 0070 | 0125 | 0179 | |
| 451 | 9.81 | 0234 | 0289 | 0344 | 0399 | 0453 | 0508 | 0563 | 0617 | 0672 | 0727 | 56 55 |
| 452 | | 0781 | 0836 | 0890 | 0945 | 1000 | 1054 | 1109 | 1163 | 1218 | 1272 | 1 5.6 5.5 |
| 453 | | 1326 | 1381 | 1435 | 1490 | 1544 | 1598 | 1652 | 1707 | 1761 | 1815 | 2 11.2 11.0 |
| | | 1870 | 1924 | 1978 | 2032 | 2086 | 2140 | 2194 | 2249 | 2303 | 2357 | 3 16.8 16.5 |
| 454 | | 2411 | 2465 | 2519 | 2573 | 2627 | 2681 | 2735 | 2788 | 2842 | 2896 | 4 22.4 22.0 |
| 455 | | 2950 | 3004 | 3058 | 3111 | 3165 | 3219 | 3273 | 3326 | 3380 | 3434 | 5 28.0 27.5 |
| 456 | | | | | | | | | | | | 6 33.6 33.0 |
| 457 | | 3487 | 3541 | 3595 | 3648 | 3702 | 3755 | 3809 | 3862 | 3916 | 3969 | 7 39.2 38.5 |
| 458 | | 4023 | 4076 | 4130 | 4183 | 4237 | 4290 | 4343 | 4397 | 4450 | 4503 | 8 44.8 44.0 |
| 459 | | 4556 | 4610 | 4663 | 4716 | 4769 | 4823 | 4876 | 4929 | 4982 | 5035 | 9 50.4 49.5 |
| 0.460 | 9.81 | 5088 | 5141 | 5194 | 5247 | 5300 | 5353 | 5406 | 5459 | 5512 | 5565 | |
| 461 | | 5618 | 5671 | 5724 | 5777 | 5829 | 5882 | 5935 | 5988 | 6041 | 6093 | 54 53 |
| 462 | | 6146 | 6199 | 6251 | 6304 | 6357 | 6409 | 6462 | 6514 | 6567 | 6620 | 1 5.4 5.3 |
| 463 | | 6672 | 6725 | 6777 | 6830 | 6882 | 6934 | 6987 | 7039 | 7092 | 7144 | 2 10.8 10.6 |
| | | | | | | | | | | | | 3 16.2 15.9 |
| 464 | | 7196 | 7249 | 7301 | 7353 | 7406 | 7458 | 7510 | 7562 | 7614 | 7667 | 4 21.6 21.2 |
| 465 | | 7719 | 7771 | 7823 | 7875 | 7927 | 7979 | 8031 | 8083 | 8135 | 8187 | 5 27.0 26.5 |
| 466 | | 8239 | 8291 | 8343 | 8395 | 8447 | 8499 | 8551 | 8603 | 8655 | 8706 | 6 32.4 31.8 |
| 467 | | 8758 | 8810 | 8862 | 8914 | 8965 | 9017 | 9069 | 9120 | 9172 | 9224 | 7 37.8 37.1 |
| 468 | | 9275 | 9327 | 9378 | 9430 | 9482 | 9533 | 9585 | 9636 | 9688 | 9739 | 8 43.2 42.4 |
| 469 | 9.81 | 9790 | 9842 | 9893 | 9945 | 9996 | 0047 | 0099 | 0150 | 0201 | 0253 | 9 48.6 47.7 |
| 0.470 | 9.82 | 0304 | 0355 | 0406 | 0458 | 0509 | 0560 | 0611 | 0662 | 0713 | 0764 | |
| 471 | | 0815 | 0867 | 0918 | 0969 | 1020 | 1071 | 1122 | 1173 | 1223 | 1274 | 52 51 |
| 472 | | 1325 | 1376 | 1427 | 1478 | 1529 | 1580 | 1630 | 1681 | 1732 | 1783 | 1 5.2 5.1 |
| 473 | | 1833 | 1884 | 1935 | 1985 | 2036 | 2087 | 2137 | 2188 | 2239 | 2289 | 2 10.4 10.2 |
| | | | | | | | | | | | | 3 15.6 15.3 |
| 474 | | 2340 | 2390 | 2441 | 2491 | 2542 | 2592 | 2643 | 2693 | 2743 | 2794 | 4 20.8 20.4 |
| 475 | | 2844 | 2895 | 2945 | 2995 | 3046 | 3096 | 3146 | 3196 | 3247 | 3297 | 5 26.0 25.5 |
| 476 | | 3347 | 3397 | 3447 | 3498 | 3548 | 3598 | 3648 | 3698 | 3748 | 3798 | 6 31.2 30.6 |
| | | | | | | | | | | | | 7 36.4 35.7 |
| 477 | | 3848 | 3898 | 3948 | 3998 | 4048 | 4098 | 4148 | 4198 | 4248 | 4298 | 8 41.6 40.8 |
| 478 | | 4347 | 4397 | 4447 | 4497 | 4547 | 4596 | 4646 | 4696 | 4746 | 4795 | 9 46.8 45.9 |
| 479 | | 4845 | 4895 | 4944 | 4994 | 5044 | 5093 | 5143 | 5192 | 5242 | 5291 | |
| 0.480 | 9.82 | 5341 | 5390 | 5440 | 5489 | 5539 | 5588 | 5638 | 5687 | 5736 | 5786 | |
| 481 | | 5835 | 5885 | 5934 | 5983 | 6032 | 6082 | 6131 | 6180 | 6229 | 6279 | 49 48 |
| 482 | | 6328 | 6377 | 6426 | 6475 | 6524 | 6573 | 6622 | 6671 | 6721 | 6770 | 1 4.9 4.8 |
| 483 | | 6819 | 6868 | 6917 | 6965 | 7014 | 7063 | 7112 | 7161 | 7210 | 7259 | 2 9.8 9.6 |
| | | | | | | | | | | | | 3 14.7 14.4 |
| 484 | | 7308 | 7357 | 7405 | 7454 | 7503 | 7552 | 7600 | 7649 | 7698 | 7746 | 4 19.6 19.2 |
| 485 | | 7795 | 7844 | 7892 | 7941 | 7990 | 8038 | 8087 | 8135 | 8184 | 8232 | 5 24.5 24.0 |
| 486 | | 8281 | 8329 | 8378 | 8426 | 8475 | 8523 | 8572 | 8620 | 8668 | 8717 | 6 29.4 28.8 |
| | | | | | | | | | | | | 7 34.3 33.6 |
| 487 | | 8765 | 8813 | 8862 | 8910 | 8958 | 9007 | 9055 | 9103 | 9151 | 9199 | 8 39.2 38.4 |
| 488 | | 9248 | 9296 | 9344 | 9392 | 9440 | 9488 | 9536 | 9584 | 9632 | 9680 | 9 44.1 43.2 |
| 489 | 9.82 | 9728 | 9776 | 9824 | 9872 | 9920 | 9968 | 0016 | 0064 | 0112 | 0160 | |
| 0.490 | 9.83 | 0208 | 0256 | 0303 | 0351 | 0399 | 0447 | 0494 | 0542 | 0590 | 0638 | |
| 491 | | 0685 | 0733 | 0781 | 0828 | 0876 | 0923 | 0971 | 1019 | 1066 | 1114 | 47 46 |
| 492 | | 1161 | 1209 | 1256 | 1304 | 1351 | 1399 | 1446 | 1493 | 1541 | 1588 | 1 4.7 4.6 |
| 493 | | 1636 | 1683 | 1730 | 1778 | 1825 | 1872 | 1919 | 1967 | 2014 | 2061 | 2 9.4 9.2 |
| | | | | | | | | | | | | 3 14.1 13.8 |
| 494 | | 2108 | 2156 | 2203 | 2250 | 2297 | 2344 | 2391 | 2438 | 2485 | 2532 | 4 18.8 18.4 |
| 495 | | 2579 | 2626 | 2674 | 2721 | 2767 | 2814 | 2861 | 2908 | 2955 | 3002 | 5 23.5 23.0 |
| 496 | | 3049 | 3096 | 3143 | 3190 | 3236 | 3283 | 3330 | 3377 | 3424 | 3470 | 6 28.2 27.6 |
| | | | | | | | | | | | | 7 32.9 32.2 |
| 497 | | 3517 | 3564 | 3610 | 3657 | 3704 | 3750 | 3797 | 3844 | 3890 | 3937 | 8 37.6 36.8 |
| 498 | | 3983 | 4030 | 4076 | 4123 | 4170 | 4216 | 4262 | 4309 | 4355 | 4402 | 9 42.3 41.4 |
| 499 | | 4448 | 4495 | 4541 | 4587 | 4634 | 4680 | 4726 | 4773 | 4819 | 4865 | |
| 0.500 | 9.83 | 4911 | 4958 | 5004 | 5050 | 5096 | 5143 | 5189 | 5235 | 5281 | 5327 | |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------------|
| 0.500 | 9.83 | 4911 | 4958 | 5004 | 5050 | 5096 | 5143 | 5189 | 5235 | 5281 | 5327 | |
| 501 | | 5373 | 5419 | 5465 | 5511 | 5557 | 5603 | 5649 | 5695 | 5741 | 5787 | 47 46 |
| 502 | | 5833 | 5879 | 5925 | 5971 | 6017 | 6063 | 6109 | 6154 | 6200 | 6246 | 1 4.7 4.6 |
| 503 | | 6292 | 6338 | 6383 | 6429 | 6475 | 6521 | 6566 | 6612 | 6658 | 6703 | 2 9.4 9.2 |
| 504 | | 6749 | 6795 | 6840 | 6886 | 6931 | 6977 | 7022 | 7068 | 7114 | 7159 | 3 14.1 13.8 |
| 505 | | 7205 | 7250 | 7295 | 7341 | 7386 | 7432 | 7477 | 7522 | 7568 | 7613 | 4 18.8 18.4 |
| 506 | | 7659 | 7704 | 7749 | 7794 | 7840 | 7885 | 7930 | 7975 | 8021 | 8066 | 5 23.5 23.0 |
| 507 | | 8111 | 8156 | 8201 | 8246 | 8292 | 8337 | 8382 | 8427 | 8472 | 8517 | 6 28.2 27.6 |
| 508 | | 8562 | 8607 | 8652 | 8697 | 8742 | 8787 | 8832 | 8877 | 8922 | 8967 | 7 32.9 32.2 |
| 509 | | 9011 | 9056 | 9101 | 9146 | 9191 | 9236 | 9280 | 9325 | 9370 | 9415 | 8 37.6 36.8 |
| 0.510 | 9.83 | 9459 | 9504 | 9549 | 9594 | 9638 | 9683 | 9728 | 9772 | 9817 | 9861 | 9 42.3 41.4 |
| 511 | 9.83 | 9906 | 9951 | 9995 | 10040 | 10084 | 10129 | 10173 | 10218 | 10262 | 10307 | 45 44 |
| 512 | 9.84 | 0351 | 0395 | 0440 | 0484 | 0529 | 0573 | 0617 | 0662 | 0706 | 0750 | 1 4.5 4.4 |
| 513 | | 0795 | 0839 | 0883 | 0927 | 0972 | 1016 | 1060 | 1104 | 1148 | 1192 | 2 9.0 8.8 |
| 514 | | 1237 | 1281 | 1325 | 1369 | 1413 | 1457 | 1501 | 1545 | 1589 | 1633 | 3 13.5 13.2 |
| 515 | | 1677 | 1721 | 1765 | 1809 | 1853 | 1897 | 1941 | 1985 | 2029 | 2072 | 4 18.0 17.6 |
| 516 | | 2116 | 2160 | 2204 | 2248 | 2292 | 2335 | 2379 | 2423 | 2467 | 2510 | 5 22.5 22.0 |
| 517 | | 2554 | 2598 | 2641 | 2685 | 2729 | 2772 | 2816 | 2860 | 2903 | 2947 | 6 27.0 26.4 |
| 518 | | 2990 | 3034 | 3077 | 3121 | 3164 | 3208 | 3251 | 3295 | 3338 | 3382 | 7 31.5 30.8 |
| 519 | | 3425 | 3468 | 3512 | 3555 | 3599 | 3642 | 3685 | 3729 | 3772 | 3815 | 8 36.0 35.2 |
| 0.520 | 9.84 | 3858 | 3902 | 3945 | 3988 | 4031 | 4075 | 4118 | 4161 | 4204 | 4247 | 9 40.5 39.6 |
| 521 | | 4290 | 4333 | 4377 | 4420 | 4463 | 4506 | 4549 | 4592 | 4635 | 4678 | 43 42 |
| 522 | | 4721 | 4764 | 4807 | 4850 | 4893 | 4936 | 4979 | 5021 | 5064 | 5107 | 1 4.3 4.2 |
| 523 | | 5150 | 5193 | 5236 | 5278 | 5321 | 5364 | 5407 | 5450 | 5492 | 5535 | 2 8.6 8.4 |
| 524 | | 5578 | 5620 | 5663 | 5706 | 5748 | 5791 | 5834 | 5876 | 5919 | 5961 | 3 12.9 12.6 |
| 525 | | 6004 | 6047 | 6089 | 6132 | 6174 | 6217 | 6259 | 6302 | 6344 | 6386 | 4 17.2 16.8 |
| 526 | | 6429 | 6471 | 6514 | 6556 | 6598 | 6641 | 6683 | 6725 | 6768 | 6810 | 5 21.5 21.0 |
| 527 | | 6852 | 6895 | 6937 | 6979 | 7021 | 7064 | 7106 | 7148 | 7190 | 7232 | 6 25.8 25.2 |
| 528 | | 7275 | 7317 | 7359 | 7401 | 7443 | 7485 | 7527 | 7569 | 7611 | 7653 | 7 30.1 29.4 |
| 529 | | 7695 | 7737 | 7779 | 7821 | 7863 | 7905 | 7947 | 7989 | 8031 | 8073 | 8 34.4 33.6 |
| 0.530 | 9.84 | 8115 | 8156 | 8198 | 8240 | 8282 | 8324 | 8366 | 8407 | 8449 | 8491 | 9 38.7 37.8 |
| 531 | | 8535 | 8574 | 8616 | 8658 | 8699 | 8741 | 8783 | 8824 | 8866 | 8908 | 41 40 |
| 532 | | 8949 | 8991 | 9032 | 9074 | 9116 | 9157 | 9199 | 9240 | 9282 | 9323 | 1 4.1 4.0 |
| 533 | | 9365 | 9406 | 9447 | 9489 | 9530 | 9572 | 9613 | 9654 | 9696 | 9737 | 2 8.2 8.0 |
| 534 | 9.84 | 9778 | 9820 | 9861 | 9902 | 9944 | 9985 | 10026 | 10067 | 10109 | 10150 | 3 12.3 12.0 |
| 535 | 9.85 | 0191 | 0232 | 0273 | 0315 | 0356 | 0397 | 0438 | 0479 | 0520 | 0561 | 4 16.4 16.0 |
| 536 | | 0602 | 0643 | 0684 | 0725 | 0766 | 0807 | 0848 | 0889 | 0930 | 0971 | 5 20.5 20.0 |
| 537 | | 1012 | 1053 | 1094 | 1135 | 1176 | 1217 | 1258 | 1298 | 1339 | 1380 | 6 24.6 24.0 |
| 538 | | 1421 | 1462 | 1502 | 1543 | 1584 | 1625 | 1665 | 1706 | 1747 | 1787 | 7 28.7 28.0 |
| 539 | | 1828 | 1869 | 1909 | 1950 | 1991 | 2031 | 2072 | 2112 | 2153 | 2193 | 8 32.8 32.0 |
| 0.540 | 9.85 | 2234 | 2275 | 2315 | 2356 | 2396 | 2436 | 2477 | 2517 | 2558 | 2598 | 9 36.9 36.0 |
| 541 | | 2639 | 2679 | 2719 | 2760 | 2800 | 2840 | 2881 | 2921 | 2961 | 3002 | 39 38 |
| 542 | | 3042 | 3082 | 3122 | 3163 | 3203 | 3243 | 3283 | 3324 | 3364 | 3404 | 1 3.9 3.8 |
| 543 | | 3444 | 3484 | 3524 | 3564 | 3604 | 3645 | 3685 | 3725 | 3765 | 3805 | 2 7.8 7.6 |
| 544 | | 3845 | 3885 | 3925 | 3965 | 4005 | 4045 | 4085 | 4124 | 4164 | 4204 | 3 11.7 11.4 |
| 545 | | 4244 | 4284 | 4324 | 4364 | 4404 | 4444 | 4483 | 4523 | 4563 | 4603 | 4 15.6 15.2 |
| 546 | | 4642 | 4682 | 4722 | 4762 | 4801 | 4841 | 4881 | 4920 | 4960 | 5000 | 5 19.5 19.0 |
| 547 | | 5039 | 5079 | 5118 | 5158 | 5198 | 5237 | 5277 | 5316 | 5356 | 5395 | 6 23.4 22.8 |
| 548 | | 5435 | 5474 | 5514 | 5553 | 5593 | 5632 | 5672 | 5711 | 5750 | 5790 | 7 27.3 26.6 |
| 549 | | 5829 | 5869 | 5908 | 5947 | 5987 | 6026 | 6065 | 6104 | 6144 | 6183 | 8 31.2 30.4 |
| 0.550 | 9.85 | 6222 | 6261 | 6301 | 6340 | 6379 | 6418 | 6457 | 6497 | 6536 | 6575 | 9 35.1 34.2 |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 0.550 | 9.85 | 6222 | 6261 | 6301 | 6340 | 6379 | 6418 | 6457 | 6497 | 6536 | 6575 | |
| 551 | | 6614 | 6653 | 6692 | 6731 | 6770 | 6809 | 6849 | 6888 | 6927 | 6966 | 39 |
| 552 | | 7005 | 7044 | 7083 | 7122 | 7160 | 7199 | 7238 | 7277 | 7316 | 7355 | 1 3.9 |
| 553 | | 7394 | 7433 | 7472 | 7510 | 7549 | 7588 | 7627 | 7666 | 7704 | 7743 | 2 7.8 |
| 554 | | 7782 | 7821 | 7859 | 7898 | 7937 | 7976 | 8014 | 8053 | 8092 | 8130 | 3 11.7 |
| 555 | | 8169 | 8207 | 8246 | 8285 | 8323 | 8362 | 8400 | 8439 | 8477 | 8516 | 4 15.6 |
| 556 | | 8554 | 8593 | 8631 | 8670 | 8708 | 8747 | 8785 | 8824 | 8862 | 8900 | 5 19.5 |
| 557 | | 8939 | 8977 | 9016 | 9054 | 9092 | 9131 | 9169 | 9207 | 9245 | 9284 | 6 23.4 |
| 558 | | 9322 | 9360 | 9398 | 9437 | 9475 | 9513 | 9551 | 9589 | 9628 | 9666 | 7 27.3 |
| 559 | 9.85 | 9704 | 9742 | 9780 | 9818 | 9856 | 9894 | 9932 | 9971 | 0009 | 0047 | 8 31.2 |
| | | | | | | | | | | | | 9 35.1 |
| 0.560 | 9.86 | 0085 | 0123 | 0161 | 0199 | 0237 | 0275 | 0312 | 0350 | 0388 | 0426 | |
| 561 | | 0464 | 0502 | 0540 | 0578 | 0616 | 0653 | 0691 | 0729 | 0767 | 0805 | 38 37 |
| 562 | | 0842 | 0880 | 0918 | 0956 | 0993 | 1031 | 1069 | 1107 | 1144 | 1182 | 1 3.8 |
| 563 | | 1220 | 1257 | 1295 | 1332 | 1370 | 1408 | 1445 | 1483 | 1520 | 1558 | 2 7.6 |
| 564 | | 1595 | 1633 | 1671 | 1708 | 1746 | 1783 | 1820 | 1858 | 1895 | 1933 | 3 11.4 |
| 565 | | 1970 | 2008 | 2045 | 2082 | 2120 | 2157 | 2194 | 2232 | 2269 | 2306 | 4 15.2 |
| 566 | | 2344 | 2381 | 2418 | 2456 | 2493 | 2530 | 2567 | 2605 | 2642 | 2679 | 5 19.0 |
| 567 | | 2716 | 2753 | 2790 | 2828 | 2865 | 2902 | 2939 | 2976 | 3013 | 3050 | 6 22.8 |
| 568 | | 3087 | 3124 | 3161 | 3198 | 3235 | 3272 | 3309 | 3346 | 3383 | 3420 | 7 26.6 |
| 569 | | 3457 | 3494 | 3531 | 3568 | 3605 | 3642 | 3679 | 3716 | 3753 | 3789 | 8 30.4 |
| | | | | | | | | | | | | 9 34.2 |
| 0.570 | 9.86 | 3826 | 3863 | 3900 | 3937 | 3973 | 4010 | 4047 | 4084 | 4120 | 4157 | |
| 571 | | 4194 | 4231 | 4267 | 4304 | 4341 | 4377 | 4414 | 4451 | 4487 | 4524 | 36 |
| 572 | | 4560 | 4597 | 4634 | 4670 | 4707 | 4743 | 4780 | 4816 | 4853 | 4889 | 1 3.6 |
| 573 | | 4926 | 4962 | 4999 | 5035 | 5072 | 5108 | 5144 | 5181 | 5217 | 5254 | 2 7.2 |
| 574 | | 5290 | 5326 | 5363 | 5399 | 5435 | 5472 | 5508 | 5544 | 5581 | 5617 | 3 10.8 |
| 575 | | 5653 | 5689 | 5726 | 5762 | 5798 | 5834 | 5870 | 5907 | 5943 | 5979 | 4 14.4 |
| 576 | | 6015 | 6051 | 6087 | 6123 | 6160 | 6196 | 6232 | 6268 | 6304 | 6340 | 5 18.0 |
| 577 | | 6376 | 6412 | 6448 | 6484 | 6520 | 6556 | 6592 | 6628 | 6664 | 6700 | 6 21.6 |
| 578 | | 6736 | 6772 | 6807 | 6843 | 6879 | 6915 | 6951 | 6987 | 7023 | 7058 | 7 25.2 |
| 579 | | 7094 | 7130 | 7166 | 7202 | 7237 | 7273 | 7309 | 7345 | 7380 | 7416 | 8 28.8 |
| | | | | | | | | | | | | 9 32.4 |
| 0.580 | 9.86 | 7452 | 7487 | 7523 | 7559 | 7594 | 7630 | 7666 | 7701 | 7737 | 7772 | |
| 581 | | 7808 | 7844 | 7879 | 7915 | 7950 | 7986 | 8021 | 8057 | 8092 | 8128 | 35 34 |
| 582 | | 8163 | 8199 | 8234 | 8270 | 8305 | 8340 | 8376 | 8411 | 8447 | 8482 | 1 3.5 |
| 583 | | 8517 | 8553 | 8588 | 8623 | 8659 | 8694 | 8729 | 8765 | 8800 | 8835 | 2 7.0 |
| 584 | | 8870 | 8906 | 8941 | 8976 | 9011 | 9047 | 9082 | 9117 | 9152 | 9187 | 3 10.5 |
| 585 | | 9222 | 9257 | 9293 | 9328 | 9363 | 9398 | 9433 | 9468 | 9503 | 9538 | 4 14.0 |
| 586 | | 9573 | 9608 | 9643 | 9678 | 9713 | 9748 | 9783 | 9818 | 9853 | 9888 | 5 17.5 |
| 587 | 9.86 | 9923 | 9958 | 9993 | 0028 | 0063 | 0097 | 0132 | 0167 | 0202 | 0237 | 6 21.0 |
| 588 | 9.87 | 0272 | 0306 | 0341 | 0376 | 0411 | 0446 | 0480 | 0515 | 0550 | 0584 | 7 24.5 |
| 589 | | 0619 | 0654 | 0689 | 0723 | 0758 | 0793 | 0827 | 0862 | 0896 | 0931 | 8 28.0 |
| | | | | | | | | | | | | 9 31.5 |
| 0.590 | 9.87 | 0966 | 1000 | 1035 | 1069 | 1104 | 1139 | 1173 | 1208 | 1242 | 1277 | |
| 591 | | 1311 | 1346 | 1380 | 1415 | 1449 | 1483 | 1518 | 1552 | 1587 | 1621 | 33 |
| 592 | | 1655 | 1690 | 1724 | 1759 | 1793 | 1827 | 1862 | 1896 | 1930 | 1964 | 1 3.3 |
| 593 | | 1999 | 2033 | 2067 | 2102 | 2136 | 2170 | 2204 | 2238 | 2273 | 2307 | 2 6.6 |
| 594 | | 2341 | 2375 | 2409 | 2443 | 2478 | 2512 | 2546 | 2580 | 2614 | 2648 | 3 9.9 |
| 595 | | 2682 | 2716 | 2750 | 2784 | 2818 | 2852 | 2886 | 2920 | 2954 | 2988 | 4 13.2 |
| 596 | | 3022 | 3056 | 3090 | 3124 | 3158 | 3192 | 3226 | 3260 | 3294 | 3328 | 5 16.5 |
| 597 | | 3361 | 3395 | 3429 | 3463 | 3497 | 3531 | 3564 | 3598 | 3632 | 3666 | 6 19.8 |
| 598 | | 3699 | 3733 | 3767 | 3801 | 3834 | 3868 | 3902 | 3935 | 3969 | 4003 | 7 23.1 |
| 599 | | 4036 | 4070 | 4104 | 4137 | 4171 | 4205 | 4238 | 4272 | 4305 | 4339 | 8 26.4 |
| | | | | | | | | | | | | 9 29.7 |
| 0.600 | 9.87 | 4372 | 4406 | 4439 | 4473 | 4507 | 4540 | 4574 | 4607 | 4640 | 4674 | |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | FP. |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0.600 | 9.87 | 4372 | 4406 | 4439 | 4473 | 4507 | 4540 | 4574 | 4607 | 4640 | 4674 | |
| 601 | | 4707 | 4741 | 4774 | 4808 | 4841 | 4874 | 4908 | 4941 | 4975 | 5008 | 34 |
| 602 | | 5041 | 5075 | 5108 | 5141 | 5175 | 5208 | 5241 | 5274 | 5308 | 5341 | 1 3.4 |
| 603 | | 5374 | 5407 | 5441 | 5474 | 5507 | 5540 | 5573 | 5607 | 5640 | 5673 | 2 6.8 |
| 604 | | 5706 | 5739 | 5772 | 5805 | 5838 | 5872 | 5905 | 5938 | 5971 | 6004 | 3 10.2 |
| 605 | | 6037 | 6070 | 6103 | 6136 | 6169 | 6202 | 6235 | 6268 | 6301 | 6334 | 4 13.6 |
| 606 | | 6367 | 6400 | 6433 | 6465 | 6498 | 6531 | 6564 | 6597 | 6630 | 6663 | 5 17.0 |
| 607 | | 6696 | 6728 | 6761 | 6794 | 6827 | 6860 | 6892 | 6925 | 6958 | 6991 | 6 20.4 |
| 608 | | 7023 | 7056 | 7089 | 7122 | 7154 | 7187 | 7220 | 7252 | 7285 | 7318 | 7 23.8 |
| 609 | | 7350 | 7383 | 7415 | 7448 | 7481 | 7513 | 7546 | 7578 | 7611 | 7643 | 8 27.2 |
| | | | | | | | | | | | | 9 30.6 |
| 0.610 | 9.87 | 7676 | 7709 | 7741 | 7774 | 7806 | 7839 | 7871 | 7903 | 7936 | 7968 | |
| 611 | | 8001 | 8033 | 8066 | 8098 | 8130 | 8163 | 8195 | 8228 | 8260 | 8292 | 33 32 |
| 612 | | 8325 | 8357 | 8389 | 8422 | 8454 | 8486 | 8519 | 8551 | 8583 | 8615 | 1 3.3 |
| 613 | | 8648 | 8680 | 8712 | 8744 | 8776 | 8809 | 8841 | 8873 | 8905 | 8937 | 2 6.6 |
| 614 | | 8969 | 9002 | 9034 | 9066 | 9098 | 9130 | 9162 | 9194 | 9226 | 9258 | 3 9.9 |
| 615 | | 9290 | 9322 | 9354 | 9386 | 9418 | 9450 | 9482 | 9514 | 9546 | 9578 | 4 13.2 |
| 616 | | 9610 | 9642 | 9674 | 9706 | 9738 | 9770 | 9802 | 9834 | 9865 | 9897 | 5 16.5 |
| 617 | 9.87 | 9929 | 9961 | 9993 | 10025 | 10057 | 10088 | 10120 | 10152 | 10184 | 10215 | 6 19.8 |
| 618 | 9.88 | 0247 | 0279 | 0311 | 0342 | 0374 | 0406 | 0438 | 0469 | 0501 | 0533 | 7 23.1 |
| 619 | | 0564 | 0596 | 0628 | 0659 | 0691 | 0722 | 0754 | 0786 | 0817 | 0849 | 8 26.4 |
| | | | | | | | | | | | | 9 29.7 |
| 0.620 | 9.88 | 0880 | 0912 | 0943 | 0975 | 1006 | 1038 | 1069 | 1101 | 1132 | 1164 | |
| 621 | | 1195 | 1227 | 1258 | 1290 | 1321 | 1353 | 1384 | 1415 | 1447 | 1478 | 31 |
| 622 | | 1510 | 1541 | 1572 | 1604 | 1635 | 1666 | 1698 | 1729 | 1760 | 1791 | 1 3.1 |
| 623 | | 1823 | 1854 | 1885 | 1917 | 1948 | 1979 | 2010 | 2041 | 2073 | 2104 | 2 6.2 |
| 624 | | 2135 | 2166 | 2197 | 2229 | 2260 | 2291 | 2322 | 2353 | 2384 | 2415 | 3 9.3 |
| 625 | | 2446 | 2477 | 2508 | 2540 | 2571 | 2602 | 2633 | 2664 | 2695 | 2726 | 4 12.4 |
| 626 | | 2757 | 2788 | 2819 | 2850 | 2881 | 2912 | 2943 | 2973 | 3004 | 3035 | 5 15.5 |
| 627 | | 3066 | 3097 | 3128 | 3159 | 3190 | 3221 | 3251 | 3282 | 3313 | 3344 | 6 18.6 |
| 628 | | 3375 | 3405 | 3436 | 3467 | 3498 | 3529 | 3559 | 3590 | 3621 | 3652 | 7 21.7 |
| 629 | | 3682 | 3713 | 3744 | 3774 | 3805 | 3836 | 3867 | 3897 | 3928 | 3958 | 8 24.8 |
| | | | | | | | | | | | | 9 27.9 |
| 0.630 | 9.88 | 3989 | 4020 | 4050 | 4081 | 4111 | 4142 | 4173 | 4203 | 4234 | 4264 | |
| 631 | | 4295 | 4325 | 4356 | 4386 | 4417 | 4447 | 4478 | 4508 | 4539 | 4569 | 30 |
| 632 | | 4599 | 4629 | 4659 | 4691 | 4721 | 4752 | 4782 | 4812 | 4843 | 4873 | 1 3.0 |
| 633 | | 4903 | 4934 | 4964 | 4994 | 5025 | 5055 | 5085 | 5116 | 5146 | 5176 | 2 6.0 |
| 634 | | 5206 | 5237 | 5267 | 5297 | 5327 | 5358 | 5388 | 5418 | 5448 | 5478 | 3 9.0 |
| 635 | | 5509 | 5539 | 5569 | 5599 | 5629 | 5659 | 5689 | 5719 | 5750 | 5780 | 4 12.0 |
| 636 | | 5810 | 5840 | 5870 | 5900 | 5930 | 5960 | 5990 | 6020 | 6050 | 6080 | 5 15.0 |
| 637 | | 6110 | 6140 | 6170 | 6200 | 6230 | 6260 | 6290 | 6320 | 6350 | 6379 | 6 18.0 |
| 638 | | 6409 | 6439 | 6469 | 6499 | 6529 | 6559 | 6589 | 6618 | 6648 | 6678 | 7 21.0 |
| 639 | | 6708 | 6738 | 6767 | 6797 | 6827 | 6857 | 6887 | 6916 | 6946 | 6976 | 8 24.0 |
| | | | | | | | | | | | | 9 27.0 |
| 0.640 | 9.88 | 7006 | 7035 | 7065 | 7095 | 7124 | 7154 | 7184 | 7213 | 7243 | 7273 | |
| 641 | | 7302 | 7332 | 7361 | 7391 | 7421 | 7450 | 7480 | 7509 | 7539 | 7569 | 29 |
| 642 | | 7598 | 7628 | 7657 | 7687 | 7716 | 7746 | 7775 | 7805 | 7834 | 7864 | 1 2.9 |
| 643 | | 7893 | 7922 | 7952 | 7981 | 8011 | 8040 | 8070 | 8099 | 8128 | 8158 | 2 5.8 |
| 644 | | 8187 | 8216 | 8246 | 8275 | 8304 | 8334 | 8363 | 8392 | 8422 | 8451 | 3 8.7 |
| 645 | | 8480 | 8510 | 8539 | 8568 | 8597 | 8627 | 8656 | 8685 | 8714 | 8743 | 4 11.6 |
| 646 | | 8773 | 8802 | 8831 | 8860 | 8889 | 8918 | 8948 | 8977 | 9006 | 9035 | 5 14.5 |
| 647 | | 9064 | 9093 | 9122 | 9151 | 9180 | 9209 | 9238 | 9268 | 9297 | 9326 | 6 17.4 |
| 648 | | 9355 | 9384 | 9413 | 9442 | 9471 | 9500 | 9529 | 9558 | 9587 | 9615 | 7 20.3 |
| 649 | | 9644 | 9673 | 9702 | 9731 | 9760 | 9789 | 9818 | 9847 | 9876 | 9904 | 8 23.2 |
| | | | | | | | | | | | | 9 26.1 |
| 0.650 | 9.88 | 9933 | 9962 | 9991 | 10020 | 10049 | 10077 | 10106 | 10135 | 10164 | 10193 | |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 0.650 | 9.88 | 9933 | 9962 | 9991 | 0020 | 0049 | 0077 | 0106 | 0135 | 0164 | 0193 | |
| 651 | 9.89 | 0221 | 0250 | 0279 | 0308 | 0336 | 0365 | 0394 | 0422 | 0451 | 0480 | 28 |
| 652 | | 0508 | 0537 | 0566 | 0594 | 0623 | 0652 | 0680 | 0709 | 0738 | 0766 | 1 2.8 |
| 653 | | 0795 | 0823 | 0852 | 0881 | 0909 | 0938 | 0966 | 0995 | 1023 | 1052 | 2 5.6 |
| 654 | | 1080 | 1109 | 1137 | 1166 | 1194 | 1223 | 1251 | 1280 | 1308 | 1336 | 3 8.4 |
| 655 | | 1365 | 1393 | 1422 | 1450 | 1479 | 1507 | 1535 | 1564 | 1592 | 1620 | 4 11.2 |
| 656 | | 1649 | 1677 | 1705 | 1734 | 1762 | 1790 | 1819 | 1847 | 1875 | 1903 | 5 14.0 |
| 657 | | 1932 | 1960 | 1988 | 2016 | 2045 | 2073 | 2101 | 2129 | 2157 | 2186 | 6 16.8 |
| 658 | | 2214 | 2242 | 2270 | 2298 | 2326 | 2354 | 2383 | 2411 | 2439 | 2467 | 7 19.6 |
| 659 | | 2495 | 2523 | 2551 | 2579 | 2607 | 2635 | 2663 | 2691 | 2719 | 2747 | 8 22.4 |
| 0.660 | 9.89 | 2775 | 2803 | 2831 | 2859 | 2887 | 2915 | 2943 | 2971 | 2999 | 3027 | 9 25.2 |
| 661 | | 3055 | 3083 | 3111 | 3139 | 3167 | 3195 | 3223 | 3250 | 3278 | 3306 | 27 |
| 662 | | 3334 | 3362 | 3390 | 3417 | 3445 | 3473 | 3501 | 3529 | 3556 | 3584 | 1 2.7 |
| 663 | | 3612 | 3640 | 3667 | 3695 | 3723 | 3751 | 3778 | 3806 | 3834 | 3861 | 2 5.4 |
| 664 | | 3889 | 3917 | 3944 | 3972 | 4000 | 4027 | 4055 | 4083 | 4110 | 4138 | 3 8.1 |
| 665 | | 4165 | 4193 | 4221 | 4248 | 4276 | 4303 | 4331 | 4358 | 4386 | 4413 | 4 10.8 |
| 666 | | 4441 | 4469 | 4496 | 4523 | 4551 | 4578 | 4606 | 4633 | 4661 | 4688 | 5 13.5 |
| 667 | | 4716 | 4743 | 4771 | 4798 | 4825 | 4853 | 4880 | 4908 | 4935 | 4962 | 6 16.2 |
| 668 | | 4990 | 5017 | 5044 | 5072 | 5099 | 5126 | 5154 | 5181 | 5208 | 5236 | 7 18.9 |
| 669 | | 5263 | 5290 | 5317 | 5345 | 5372 | 5399 | 5426 | 5454 | 5481 | 5508 | 8 21.6 |
| 0.670 | 9.89 | 5535 | 5562 | 5590 | 5617 | 5644 | 5671 | 5698 | 5725 | 5752 | 5780 | 9 24.3 |
| 671 | | 5807 | 5834 | 5861 | 5888 | 5915 | 5942 | 5969 | 5996 | 6023 | 6050 | 26 |
| 672 | | 6077 | 6104 | 6131 | 6158 | 6185 | 6212 | 6239 | 6266 | 6293 | 6320 | 1 2.6 |
| 673 | | 6347 | 6374 | 6401 | 6428 | 6455 | 6482 | 6509 | 6536 | 6563 | 6590 | 2 5.2 |
| 674 | | 6617 | 6643 | 6670 | 6697 | 6724 | 6751 | 6778 | 6804 | 6831 | 6858 | 3 7.8 |
| 675 | | 6885 | 6912 | 6938 | 6965 | 6992 | 7019 | 7046 | 7072 | 7099 | 7126 | 4 10.4 |
| 676 | | 7153 | 7179 | 7206 | 7233 | 7259 | 7286 | 7313 | 7339 | 7366 | 7393 | 5 13.0 |
| 677 | | 7419 | 7446 | 7473 | 7499 | 7526 | 7552 | 7579 | 7606 | 7632 | 7659 | 6 15.6 |
| 678 | | 7685 | 7712 | 7738 | 7765 | 7792 | 7818 | 7845 | 7871 | 7898 | 7924 | 7 18.2 |
| 679 | | 7951 | 7977 | 8004 | 8030 | 8057 | 8083 | 8109 | 8136 | 8162 | 8189 | 8 20.8 |
| 0.680 | 9.89 | 8215 | 8242 | 8268 | 8294 | 8321 | 8347 | 8373 | 8400 | 8426 | 8453 | 9 23.4 |
| 681 | | 8479 | 8505 | 8532 | 8558 | 8584 | 8610 | 8637 | 8663 | 8689 | 8716 | 25 |
| 682 | | 8742 | 8768 | 8794 | 8821 | 8847 | 8873 | 8899 | 8925 | 8952 | 8978 | 1 2.5 |
| 683 | | 9004 | 9030 | 9056 | 9083 | 9109 | 9135 | 9161 | 9187 | 9213 | 9239 | 2 5.0 |
| 684 | | 9265 | 9292 | 9318 | 9344 | 9370 | 9396 | 9422 | 9448 | 9474 | 9500 | 3 7.5 |
| 685 | | 9526 | 9552 | 9578 | 9604 | 9630 | 9656 | 9682 | 9708 | 9734 | 9760 | 4 10.0 |
| 686 | 9.89 | 9786 | 9812 | 9838 | 9864 | 9890 | 9916 | 9942 | 9968 | 9993 | 0019 | 5 12.5 |
| 687 | 9.90 | 0045 | 0071 | 0097 | 0123 | 0149 | 0175 | 0200 | 0226 | 0252 | 0278 | 6 15.0 |
| 688 | | 0304 | 0329 | 0355 | 0381 | 0407 | 0433 | 0458 | 0484 | 0510 | 0536 | 7 17.5 |
| 689 | | 0561 | 0587 | 0613 | 0638 | 0664 | 0690 | 0716 | 0741 | 0767 | 0793 | 8 20.0 |
| 0.690 | 9.90 | 0818 | 0844 | 0870 | 0895 | 0921 | 0946 | 0972 | 0998 | 1023 | 1049 | 9 22.5 |
| 691 | | 1074 | 1100 | 1126 | 1151 | 1177 | 1202 | 1228 | 1253 | 1279 | 1304 | 24 |
| 692 | | 1330 | 1355 | 1381 | 1406 | 1432 | 1457 | 1483 | 1508 | 1534 | 1559 | 1 2.4 |
| 693 | | 1585 | 1610 | 1635 | 1661 | 1686 | 1712 | 1737 | 1762 | 1788 | 1813 | 2 4.8 |
| 694 | | 1839 | 1864 | 1889 | 1915 | 1940 | 1965 | 1991 | 2016 | 2041 | 2066 | 3 7.2 |
| 695 | | 2092 | 2117 | 2142 | 2168 | 2193 | 2218 | 2243 | 2269 | 2294 | 2319 | 4 9.6 |
| 696 | | 2344 | 2370 | 2395 | 2420 | 2445 | 2470 | 2495 | 2521 | 2546 | 2571 | 5 12.0 |
| 697 | | 2596 | 2621 | 2646 | 2671 | 2697 | 2722 | 2747 | 2772 | 2797 | 2822 | 6 14.4 |
| 698 | | 2847 | 2872 | 2897 | 2922 | 2947 | 2972 | 2997 | 3022 | 3047 | 3072 | 7 16.8 |
| 699 | | 3097 | 3122 | 3147 | 3172 | 3197 | 3222 | 3247 | 3272 | 3297 | 3322 | 8 19.2 |
| 0.700 | 9.90 | 3347 | 3372 | 3397 | 3422 | 3447 | 3472 | 3497 | 3521 | 3546 | 3571 | 9 21.6 |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0.700 | 9.90 | 3347 | 3372 | 3397 | 3422 | 3447 | 3472 | 3497 | 3521 | 3546 | 3571 | |
| 701 | | 3596 | 3621 | 3646 | 3671 | 3695 | 3720 | 3745 | 3770 | 3795 | 3819 | |
| 702 | | 3844 | 3869 | 3894 | 3919 | 3943 | 3968 | 3993 | 4018 | 4042 | 4067 | |
| 703 | | 4092 | 4116 | 4141 | 4166 | 4190 | 4215 | 4240 | 4264 | 4289 | 4314 | |
| 704 | | 4338 | 4363 | 4388 | 4412 | 4437 | 4462 | 4486 | 4511 | 4535 | 4560 | |
| 705 | | 4584 | 4609 | 4634 | 4658 | 4683 | 4707 | 4732 | 4756 | 4781 | 4805 | 1 2.5 |
| 706 | | 4830 | 4854 | 4879 | 4903 | 4928 | 4952 | 4977 | 5001 | 5026 | 5050 | 2 5.0 |
| 707 | | 5074 | 5099 | 5123 | 5148 | 5172 | 5197 | 5221 | 5245 | 5270 | 5294 | 3 7.5 |
| 708 | | 5318 | 5343 | 5367 | 5392 | 5416 | 5440 | 5464 | 5489 | 5513 | 5537 | 4 10.0 |
| 709 | | 5562 | 5586 | 5610 | 5635 | 5659 | 5683 | 5707 | 5732 | 5756 | 5780 | 5 12.5 |
| 0.710 | 9.90 | 5804 | 5828 | 5853 | 5877 | 5901 | 5925 | 5949 | 5974 | 5998 | 6022 | 6 15.0 |
| 711 | | 6046 | 6070 | 6094 | 6119 | 6143 | 6167 | 6191 | 6215 | 6239 | 6263 | 7 17.5 |
| 712 | | 6287 | 6311 | 6335 | 6360 | 6384 | 6408 | 6432 | 6456 | 6480 | 6504 | 8 20.0 |
| 713 | | 6528 | 6552 | 6576 | 6600 | 6624 | 6648 | 6672 | 6696 | 6720 | 6744 | 9 22.5 |
| 714 | | 6768 | 6792 | 6815 | 6839 | 6863 | 6887 | 6911 | 6935 | 6959 | 6983 | |
| 715 | | 7007 | 7031 | 7054 | 7078 | 7102 | 7126 | 7150 | 7174 | 7198 | 7221 | |
| 716 | | 7245 | 7269 | 7293 | 7317 | 7340 | 7364 | 7388 | 7412 | 7435 | 7459 | 24 |
| 717 | | 7483 | 7507 | 7530 | 7554 | 7578 | 7602 | 7625 | 7649 | 7673 | 7696 | 1 2.4 |
| 718 | | 7720 | 7744 | 7767 | 7791 | 7815 | 7838 | 7862 | 7886 | 7909 | 7933 | 2 4.8 |
| 719 | | 7956 | 7980 | 8004 | 8027 | 8051 | 8074 | 8098 | 8121 | 8145 | 8169 | 3 7.2 |
| 0.720 | 9.91 | 8212 | 8236 | 8260 | 8284 | 8308 | 8332 | 8355 | 8379 | 8403 | 8427 | 4 9.6 |
| 721 | | 8427 | 8451 | 8474 | 8498 | 8521 | 8544 | 8568 | 8591 | 8615 | 8638 | 5 12.0 |
| 722 | | 8662 | 8685 | 8708 | 8732 | 8755 | 8779 | 8802 | 8825 | 8849 | 8872 | 6 14.4 |
| 723 | | 8895 | 8919 | 8942 | 8965 | 8989 | 9012 | 9035 | 9059 | 9082 | 9105 | 7 16.8 |
| 724 | | 9128 | 9152 | 9175 | 9198 | 9221 | 9245 | 9268 | 9291 | 9314 | 9338 | 8 19.2 |
| 725 | | 9361 | 9384 | 9407 | 9430 | 9454 | 9477 | 9500 | 9523 | 9546 | 9569 | 9 21.6 |
| 726 | | 9593 | 9616 | 9639 | 9662 | 9685 | 9708 | 9731 | 9754 | 9777 | 9801 | |
| 727 | 9.90 | 9824 | 9847 | 9870 | 9893 | 9916 | 9939 | 9962 | 9985 | 10008 | 10031 | 23 |
| 728 | 9.91 | 10054 | 10077 | 10100 | 10123 | 10146 | 10169 | 10192 | 10215 | 10238 | 10261 | 1 2.3 |
| 729 | | 10284 | 10307 | 10330 | 10353 | 10376 | 10399 | 10421 | 10444 | 10467 | 10490 | 2 4.6 |
| 0.730 | 9.91 | 10513 | 10536 | 10559 | 10582 | 10605 | 10627 | 10650 | 10673 | 10696 | 10719 | 3 6.9 |
| 731 | | 10742 | 10764 | 10787 | 10810 | 10833 | 10856 | 10878 | 10901 | 10924 | 10947 | 4 9.2 |
| 732 | | 10969 | 10992 | 11015 | 11038 | 11060 | 11083 | 11106 | 11128 | 11151 | 11174 | 5 11.5 |
| 733 | | 11197 | 11219 | 11242 | 11265 | 11287 | 11310 | 11333 | 11355 | 11378 | 11401 | 6 13.8 |
| 734 | | 11423 | 11446 | 11468 | 11491 | 11514 | 11536 | 11559 | 11581 | 11604 | 11627 | 7 16.1 |
| 735 | | 11649 | 11672 | 11694 | 11717 | 11739 | 11762 | 11784 | 11807 | 11829 | 11852 | 8 18.4 |
| 736 | | 11874 | 11897 | 11919 | 11942 | 11964 | 11987 | 12009 | 12032 | 12054 | 12077 | 9 20.7 |
| 737 | | 12099 | 12121 | 12144 | 12166 | 12189 | 12211 | 12233 | 12256 | 12278 | 12301 | |
| 738 | | 12323 | 12345 | 12368 | 12390 | 12412 | 12435 | 12457 | 12479 | 12502 | 12524 | 22 |
| 739 | | 12546 | 12569 | 12591 | 12613 | 12636 | 12658 | 12680 | 12702 | 12725 | 12747 | 1 2.2 |
| 0.740 | 9.91 | 12769 | 12791 | 12814 | 12836 | 12858 | 12880 | 12903 | 12925 | 12947 | 12969 | 2 4.4 |
| 741 | | 12991 | 13014 | 13036 | 13058 | 13080 | 13102 | 13124 | 13146 | 13169 | 13191 | 3 6.6 |
| 742 | | 13213 | 13235 | 13257 | 13279 | 13301 | 13323 | 13345 | 13368 | 13390 | 13412 | 4 8.8 |
| 743 | | 13434 | 13456 | 13478 | 13500 | 13522 | 13544 | 13566 | 13588 | 13610 | 13632 | 5 11.0 |
| 744 | | 13654 | 13676 | 13698 | 13720 | 13742 | 13764 | 13786 | 13808 | 13830 | 13852 | 6 13.2 |
| 745 | | 13874 | 13896 | 13918 | 13939 | 13961 | 13983 | 14005 | 14027 | 14049 | 14071 | 7 15.4 |
| 746 | | 14093 | 14115 | 14136 | 14158 | 14180 | 14202 | 14224 | 14246 | 14267 | 14289 | 8 17.6 |
| 747 | | 14311 | 14333 | 14355 | 14377 | 14398 | 14420 | 14442 | 14464 | 14485 | 14507 | 9 19.8 |
| 748 | | 14529 | 14551 | 14572 | 14594 | 14616 | 14638 | 14659 | 14681 | 14703 | 14724 | |
| 749 | | 14746 | 14768 | 14789 | 14811 | 14833 | 14854 | 14876 | 14898 | 14919 | 14941 | |
| 0.750 | 9.91 | 14963 | 14984 | 15006 | 15028 | 15049 | 15071 | 15092 | 15114 | 15136 | 15157 | |

B C 0 1 2 3 4 5 6 7 8 9 PP.

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|--------|
| 0.750 | 9.91 4963 | 4984 | 5006 | 5028 | 5049 | 5071 | 5092 | 5114 | 5136 | 5157 | |
| 751 | 5179 | 5200 | 5222 | 5243 | 5265 | 5286 | 5308 | 5330 | 5351 | 5373 | |
| 752 | 5394 | 5416 | 5437 | 5459 | 5480 | 5502 | 5523 | 5544 | 5566 | 5587 | |
| 753 | 5609 | 5630 | 5652 | 5673 | 5695 | 5716 | 5737 | 5759 | 5780 | 5802 | |
| 754 | 5823 | 5844 | 5866 | 5887 | 5909 | 5930 | 5951 | 5973 | 5994 | 6015 | 21 |
| 755 | 6037 | 6058 | 6079 | 6101 | 6122 | 6143 | 6164 | 6186 | 6207 | 6228 | 1 2.1 |
| 756 | 6250 | 6271 | 6292 | 6313 | 6335 | 6356 | 6377 | 6398 | 6420 | 6441 | 2 4.2 |
| 757 | 6462 | 6483 | 6504 | 6526 | 6547 | 6568 | 6589 | 6610 | 6632 | 6653 | 3 6.3 |
| 758 | 6674 | 6695 | 6716 | 6737 | 6758 | 6780 | 6801 | 6822 | 6843 | 6864 | 4 8.4 |
| 759 | 6885 | 6906 | 6927 | 6948 | 6969 | 6990 | 7011 | 7033 | 7054 | 7075 | 5 10.5 |
| 0.760 | 9.91 7096 | 7117 | 7138 | 7159 | 7180 | 7201 | 7222 | 7243 | 7264 | 7285 | 6 12.6 |
| 761 | 7306 | 7327 | 7348 | 7369 | 7390 | 7410 | 7431 | 7452 | 7473 | 7494 | 7 14.7 |
| 762 | 7515 | 7536 | 7557 | 7578 | 7599 | 7620 | 7641 | 7661 | 7682 | 7703 | 8 16.8 |
| 763 | 7724 | 7745 | 7766 | 7787 | 7807 | 7828 | 7849 | 7870 | 7891 | 7912 | 9 18.9 |
| 764 | 7932 | 7953 | 7974 | 7995 | 8015 | 8036 | 8057 | 8078 | 8099 | 8119 | |
| 765 | 8140 | 8161 | 8182 | 8202 | 8223 | 8244 | 8264 | 8285 | 8306 | 8326 | 20 |
| 766 | 8347 | 8368 | 8389 | 8409 | 8430 | 8451 | 8471 | 8492 | 8512 | 8533 | 1 2.0 |
| 767 | 8554 | 8574 | 8595 | 8616 | 8636 | 8657 | 8677 | 8698 | 8719 | 8739 | 2 4.0 |
| 768 | 8760 | 8780 | 8801 | 8821 | 8842 | 8862 | 8883 | 8904 | 8924 | 8945 | 3 6.0 |
| 769 | 8965 | 8986 | 9006 | 9027 | 9047 | 9068 | 9088 | 9109 | 9129 | 9150 | 4 8.0 |
| 0.770 | 9.91 9170 | 9190 | 9211 | 9231 | 9252 | 9272 | 9293 | 9313 | 9333 | 9354 | 5 10.0 |
| 771 | 9374 | 9395 | 9415 | 9435 | 9456 | 9476 | 9497 | 9517 | 9537 | 9558 | 6 12.0 |
| 772 | 9578 | 9598 | 9619 | 9639 | 9659 | 9680 | 9700 | 9720 | 9741 | 9761 | 7 14.0 |
| 773 | 9781 | 9801 | 9822 | 9842 | 9862 | 9882 | 9903 | 9923 | 9943 | 9963 | 8 16.0 |
| 774 | 9.91 9984 | 0004 | 0024 | 0044 | 0065 | 0085 | 0105 | 0125 | 0145 | 0166 | 9 18.0 |
| 775 | 9.92 0186 | 0206 | 0226 | 0246 | 0266 | 0287 | 0307 | 0327 | 0347 | 0367 | |
| 776 | 0387 | 0407 | 0427 | 0448 | 0468 | 0488 | 0508 | 0528 | 0548 | 0568 | |
| 777 | 0588 | 0608 | 0628 | 0648 | 0668 | 0688 | 0708 | 0728 | 0748 | 0768 | 19 |
| 778 | 0788 | 0809 | 0829 | 0848 | 0868 | 0888 | 0908 | 0928 | 0948 | 0968 | 1 1.9 |
| 779 | 0988 | 1008 | 1028 | 1048 | 1068 | 1088 | 1108 | 1128 | 1148 | 1168 | 2 3.8 |
| 0.780 | 9.92 1188 | 1207 | 1227 | 1247 | 1267 | 1287 | 1307 | 1327 | 1347 | 1366 | 3 5.7 |
| 781 | 1386 | 1406 | 1426 | 1446 | 1466 | 1485 | 1505 | 1525 | 1545 | 1565 | 4 7.6 |
| 782 | 1584 | 1604 | 1624 | 1644 | 1664 | 1683 | 1703 | 1723 | 1743 | 1762 | 5 9.5 |
| 783 | 1782 | 1802 | 1821 | 1841 | 1861 | 1881 | 1900 | 1920 | 1940 | 1959 | 6 11.4 |
| 784 | 1979 | 1999 | 2018 | 2038 | 2058 | 2077 | 2097 | 2117 | 2136 | 2156 | 7 13.3 |
| 785 | 2176 | 2195 | 2215 | 2234 | 2254 | 2274 | 2293 | 2313 | 2332 | 2352 | 8 15.2 |
| 786 | 2372 | 2391 | 2411 | 2430 | 2450 | 2469 | 2489 | 2508 | 2528 | 2548 | 9 17.1 |
| 787 | 2567 | 2587 | 2606 | 2626 | 2645 | 2665 | 2684 | 2704 | 2723 | 2743 | |
| 788 | 2762 | 2781 | 2801 | 2820 | 2840 | 2859 | 2879 | 2898 | 2918 | 2937 | |
| 789 | 2956 | 2976 | 2995 | 3015 | 3034 | 3053 | 3073 | 3092 | 3111 | 3131 | 18 |
| 0.790 | 9.92 3150 | 3170 | 3189 | 3208 | 3228 | 3247 | 3266 | 3286 | 3305 | 3324 | 1 1.8 |
| 791 | 3344 | 3363 | 3382 | 3401 | 3421 | 3440 | 3459 | 3479 | 3498 | 3517 | 2 3.6 |
| 792 | 3536 | 3556 | 3575 | 3594 | 3613 | 3632 | 3652 | 3671 | 3690 | 3709 | 3 5.4 |
| 793 | 3729 | 3748 | 3767 | 3786 | 3805 | 3824 | 3844 | 3863 | 3882 | 3901 | 4 7.2 |
| 794 | 3920 | 3939 | 3959 | 3978 | 3997 | 4016 | 4035 | 4054 | 4073 | 4092 | 5 9.0 |
| 795 | 4111 | 4131 | 4150 | 4169 | 4188 | 4207 | 4226 | 4245 | 4264 | 4283 | 6 10.8 |
| 796 | 4302 | 4321 | 4340 | 4359 | 4378 | 4397 | 4416 | 4435 | 4454 | 4473 | 7 12.6 |
| 797 | 4492 | 4511 | 4530 | 4549 | 4568 | 4587 | 4606 | 4625 | 4644 | 4663 | 8 14.4 |
| 798 | 4682 | 4701 | 4720 | 4739 | 4758 | 4777 | 4795 | 4814 | 4833 | 4852 | 9 16.2 |
| 799 | 4871 | 4890 | 4909 | 4928 | 4947 | 4965 | 4984 | 5003 | 5022 | 5041 | |
| 0.800 | 9.92 5060 | 5078 | 5097 | 5116 | 5135 | 5154 | 5173 | 5191 | 5210 | 5229 | |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 0.800 | 9.92 | 5060 | 5078 | 5097 | 5116 | 5135 | 5154 | 5173 | 5191 | 5210 | 5229 | |
| 801 | | 5248 | 5266 | 5285 | 5304 | 5323 | 5342 | 5360 | 5379 | 5398 | 5417 | |
| 802 | | 5435 | 5454 | 5473 | 5491 | 5510 | 5529 | 5548 | 5566 | 5585 | 5604 | |
| 803 | | 5622 | 5641 | 5660 | 5678 | 5697 | 5716 | 5734 | 5753 | 5772 | 5790 | |
| 804 | | 5809 | 5828 | 5846 | 5865 | 5883 | 5902 | 5921 | 5939 | 5958 | 5976 | |
| 805 | | 5995 | 6013 | 6032 | 6051 | 6069 | 6088 | 6106 | 6125 | 6143 | 6162 | |
| 806 | | 6180 | 6199 | 6217 | 6236 | 6255 | 6273 | 6292 | 6310 | 6329 | 6347 | |
| 807 | | 6365 | 6384 | 6402 | 6421 | 6439 | 6458 | 6476 | 6495 | 6513 | 6532 | 19 |
| 808 | | 6550 | 6568 | 6587 | 6605 | 6624 | 6642 | 6660 | 6679 | 6697 | 6716 | 1 1.9 |
| 809 | | 6734 | 6752 | 6771 | 6789 | 6807 | 6826 | 6844 | 6863 | 6881 | 6899 | 2 3.8 |
| 0.810 | 9.92 | 6918 | 6936 | 6954 | 6972 | 6991 | 7009 | 7027 | 7046 | 7064 | 7082 | 3 5.7 |
| 811 | | 7101 | 7119 | 7137 | 7155 | 7174 | 7192 | 7210 | 7228 | 7247 | 7265 | 4 9.6 |
| 812 | | 7283 | 7301 | 7320 | 7338 | 7356 | 7374 | 7392 | 7411 | 7429 | 7447 | 5 11.4 |
| 813 | | 7465 | 7483 | 7501 | 7520 | 7538 | 7556 | 7574 | 7592 | 7610 | 7628 | 6 13.3 |
| 814 | | 7647 | 7665 | 7683 | 7701 | 7719 | 7737 | 7755 | 7773 | 7791 | 7810 | 7 15.2 |
| 815 | | 7828 | 7846 | 7864 | 7882 | 7900 | 7918 | 7936 | 7954 | 7972 | 7990 | 8 17.1 |
| 816 | | 8008 | 8026 | 8044 | 8062 | 8080 | 8098 | 8116 | 8134 | 8152 | 8170 | |
| 817 | | 8188 | 8206 | 8224 | 8242 | 8260 | 8278 | 8296 | 8314 | 8332 | 8350 | |
| 818 | | 8368 | 8386 | 8404 | 8422 | 8439 | 8457 | 8475 | 8493 | 8511 | 8529 | |
| 819 | | 8547 | 8565 | 8583 | 8601 | 8618 | 8636 | 8654 | 8672 | 8690 | 8708 | |
| 0.820 | 9.92 | 8725 | 8743 | 8761 | 8779 | 8797 | 8815 | 8832 | 8850 | 8868 | 8886 | |
| 821 | | 8904 | 8921 | 8939 | 8957 | 8975 | 8992 | 9010 | 9028 | 9046 | 9063 | 18 |
| 822 | | 9081 | 9099 | 9117 | 9134 | 9152 | 9170 | 9188 | 9205 | 9223 | 9241 | 1 1.8 |
| 823 | | 9258 | 9276 | 9294 | 9311 | 9329 | 9347 | 9364 | 9382 | 9400 | 9417 | 2 3.6 |
| 824 | | 9435 | 9453 | 9470 | 9488 | 9506 | 9523 | 9541 | 9558 | 9576 | 9594 | 3 5.4 |
| 825 | | 9611 | 9629 | 9646 | 9664 | 9682 | 9699 | 9717 | 9734 | 9752 | 9769 | 4 7.2 |
| 826 | | 9787 | 9804 | 9822 | 9840 | 9857 | 9875 | 9892 | 9910 | 9927 | 9945 | 5 9.0 |
| 827 | 9.92 | 9962 | 9980 | 9997 | 0015 | 0032 | 0050 | 0067 | 0085 | 0102 | 0119 | 6 10.8 |
| 828 | 9.93 | 0137 | 0154 | 0172 | 0189 | 0207 | 0224 | 0242 | 0259 | 0276 | 0293 | 7 12.6 |
| 829 | | 0311 | 0329 | 0346 | 0363 | 0381 | 0398 | 0416 | 0433 | 0450 | 0468 | 8 14.4 |
| 0.830 | 9.93 | 0485 | 0502 | 0520 | 0537 | 0555 | 0572 | 0589 | 0606 | 0623 | 0641 | 9 16.2 |
| 831 | | 0658 | 0675 | 0693 | 0710 | 0727 | 0745 | 0762 | 0779 | 0797 | 0814 | |
| 832 | | 0831 | 0849 | 0866 | 0883 | 0900 | 0918 | 0935 | 0952 | 0969 | 0986 | |
| 833 | | 1004 | 1021 | 1038 | 1055 | 1073 | 1090 | 1107 | 1124 | 1141 | 1158 | |
| 834 | | 1176 | 1193 | 1210 | 1227 | 1244 | 1261 | 1279 | 1296 | 1313 | 1330 | |
| 835 | | 1347 | 1364 | 1381 | 1398 | 1416 | 1433 | 1450 | 1467 | 1484 | 1501 | |
| 836 | | 1518 | 1535 | 1552 | 1569 | 1586 | 1604 | 1621 | 1638 | 1655 | 1672 | 17 |
| 837 | | 1689 | 1706 | 1723 | 1740 | 1757 | 1774 | 1791 | 1808 | 1825 | 1842 | 1 1.7 |
| 838 | | 1859 | 1876 | 1893 | 1910 | 1927 | 1944 | 1961 | 1978 | 1995 | 2012 | 2 3.4 |
| 839 | | 2028 | 2045 | 2062 | 2079 | 2096 | 2113 | 2130 | 2147 | 2164 | 2181 | 3 5.1 |
| 0.840 | 9.93 | 2198 | 2215 | 2231 | 2248 | 2265 | 2282 | 2299 | 2316 | 2333 | 2350 | 4 6.8 |
| 841 | | 2366 | 2383 | 2400 | 2417 | 2434 | 2451 | 2467 | 2484 | 2501 | 2518 | 5 8.5 |
| 842 | | 2535 | 2552 | 2568 | 2585 | 2602 | 2619 | 2635 | 2652 | 2669 | 2686 | 6 10.2 |
| 843 | | 2703 | 2719 | 2736 | 2753 | 2770 | 2786 | 2803 | 2820 | 2836 | 2853 | 7 11.9 |
| 844 | | 2870 | 2887 | 2903 | 2920 | 2937 | 2953 | 2970 | 2987 | 3004 | 3020 | 8 13.6 |
| 845 | | 3037 | 3054 | 3070 | 3087 | 3104 | 3120 | 3137 | 3153 | 3170 | 3187 | 9 15.3 |
| 846 | | 3203 | 3220 | 3237 | 3253 | 3270 | 3286 | 3303 | 3320 | 3336 | 3353 | |
| 847 | | 3369 | 3386 | 3403 | 3419 | 3436 | 3452 | 3469 | 3485 | 3502 | 3518 | |
| 848 | | 3535 | 3552 | 3568 | 3585 | 3601 | 3618 | 3634 | 3651 | 3667 | 3684 | |
| 849 | | 3700 | 3717 | 3733 | 3750 | 3766 | 3783 | 3799 | 3815 | 3832 | 3848 | |
| 0.850 | 9.93 | 3865 | 3881 | 3898 | 3914 | 3931 | 3947 | 3963 | 3980 | 3996 | 4013 | |

B C 0 1 2 3 4 5 6 7 8 9 PP.

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|--------|
| 0.850 | 9.93 3865 | 3881 | 3898 | 3914 | 3931 | 3947 | 3963 | 3980 | 3996 | 4013 | |
| 851 | 4029 | 4046 | 4062 | 4078 | 4095 | 4111 | 4127 | 4144 | 4160 | 4177 | |
| 852 | 4193 | 4209 | 4226 | 4242 | 4258 | 4275 | 4291 | 4307 | 4324 | 4340 | |
| 853 | 4356 | 4373 | 4389 | 4405 | 4422 | 4438 | 4454 | 4470 | 4487 | 4503 | |
| 854 | 4519 | 4536 | 4552 | 4568 | 4584 | 4601 | 4617 | 4633 | 4649 | 4666 | |
| 855 | 4682 | 4698 | 4714 | 4730 | 4747 | 4763 | 4779 | 4795 | 4812 | 4828 | |
| 856 | 4844 | 4860 | 4876 | 4892 | 4909 | 4925 | 4941 | 4957 | 4973 | 4989 | |
| 857 | 5006 | 5022 | 5038 | 5054 | 5070 | 5086 | 5102 | 5118 | 5135 | 5151 | |
| 858 | 5167 | 5183 | 5199 | 5215 | 5231 | 5247 | 5263 | 5279 | 5295 | 5311 | |
| 859 | 5328 | 5344 | 5360 | 5376 | 5392 | 5408 | 5424 | 5440 | 5456 | 5472 | |
| 0.860 | 9.93 5488 | 5504 | 5520 | 5536 | 5552 | 5568 | 5584 | 5600 | 5616 | 5632 | 16 |
| 861 | 5648 | 5664 | 5680 | 5696 | 5712 | 5728 | 5744 | 5760 | 5775 | 5791 | 1 1.6 |
| 862 | 5807 | 5823 | 5839 | 5855 | 5871 | 5887 | 5903 | 5919 | 5935 | 5951 | 2 3.2 |
| 863 | 5966 | 5982 | 5998 | 6014 | 6030 | 6046 | 6062 | 6078 | 6093 | 6109 | 3 4.8 |
| 864 | 6125 | 6141 | 6157 | 6173 | 6188 | 6204 | 6220 | 6236 | 6252 | 6268 | 4 6.4 |
| 865 | 6283 | 6299 | 6315 | 6331 | 6346 | 6362 | 6378 | 6394 | 6410 | 6425 | 5 8.0 |
| 866 | 6441 | 6457 | 6473 | 6488 | 6504 | 6520 | 6536 | 6551 | 6567 | 6583 | 6 9.6 |
| 867 | 6599 | 6614 | 6630 | 6646 | 6661 | 6677 | 6693 | 6708 | 6724 | 6740 | 7 11.2 |
| 868 | 6755 | 6771 | 6787 | 6802 | 6818 | 6834 | 6849 | 6865 | 6881 | 6896 | 8 12.8 |
| 869 | 6912 | 6928 | 6943 | 6959 | 6975 | 6990 | 7006 | 7021 | 7037 | 7053 | 9 14.4 |
| 0.870 | 9.93 7068 | 7084 | 7099 | 7115 | 7131 | 7146 | 7162 | 7177 | 7193 | 7208 | |
| 871 | 7224 | 7239 | 7255 | 7271 | 7286 | 7302 | 7317 | 7333 | 7348 | 7364 | |
| 872 | 7379 | 7395 | 7410 | 7426 | 7441 | 7457 | 7472 | 7488 | 7503 | 7519 | 15 |
| 873 | 7534 | 7550 | 7565 | 7580 | 7596 | 7611 | 7627 | 7642 | 7658 | 7673 | 1 1.5 |
| 874 | 7689 | 7704 | 7719 | 7735 | 7750 | 7766 | 7781 | 7796 | 7812 | 7827 | 2 3.0 |
| 875 | 7843 | 7858 | 7873 | 7889 | 7904 | 7920 | 7935 | 7950 | 7966 | 7981 | 3 4.5 |
| 876 | 7996 | 8012 | 8027 | 8042 | 8058 | 8073 | 8088 | 8104 | 8119 | 8134 | 4 6.0 |
| 877 | 8150 | 8165 | 8180 | 8195 | 8211 | 8226 | 8241 | 8257 | 8272 | 8287 | 5 7.5 |
| 878 | 8302 | 8318 | 8333 | 8348 | 8363 | 8379 | 8394 | 8409 | 8424 | 8440 | 6 9.0 |
| 879 | 8455 | 8470 | 8485 | 8501 | 8516 | 8531 | 8546 | 8561 | 8577 | 8592 | 7 10.5 |
| 0.880 | 9.93 8607 | 8622 | 8637 | 8652 | 8668 | 8683 | 8698 | 8713 | 8728 | 8743 | 8 12.0 |
| 881 | 8759 | 8774 | 8789 | 8804 | 8819 | 8834 | 8849 | 8864 | 8880 | 8895 | 9 13.5 |
| 882 | 8910 | 8925 | 8940 | 8955 | 8970 | 8985 | 9000 | 9015 | 9031 | 9046 | |
| 883 | 9061 | 9076 | 9091 | 9106 | 9121 | 9136 | 9151 | 9166 | 9181 | 9196 | |
| 884 | 9211 | 9226 | 9241 | 9256 | 9271 | 9286 | 9301 | 9316 | 9331 | 9346 | 14 |
| 885 | 9361 | 9376 | 9391 | 9406 | 9421 | 9436 | 9451 | 9466 | 9481 | 9496 | 1 1.4 |
| 886 | 9511 | 9526 | 9541 | 9556 | 9571 | 9585 | 9600 | 9615 | 9630 | 9645 | 2 2.8 |
| 887 | 9660 | 9675 | 9690 | 9705 | 9720 | 9735 | 9750 | 9764 | 9779 | 9794 | 3 4.2 |
| 888 | 9809 | 9824 | 9839 | 9853 | 9868 | 9883 | 9898 | 9913 | 9928 | 9943 | 4 5.6 |
| 889 | 9.93 9957 | 9972 | 9987 | 9992 | 9997 | 9997 | 9997 | 9997 | 9997 | 9997 | 5 7.0 |
| 0.890 | 9.94 0105 | 0120 | 0135 | 0150 | 0165 | 0179 | 0194 | 0209 | 0224 | 0238 | 6 8.4 |
| 891 | 0253 | 0268 | 0283 | 0297 | 0312 | 0327 | 0342 | 0356 | 0371 | 0386 | 7 9.8 |
| 892 | 0400 | 0415 | 0430 | 0445 | 0459 | 0474 | 0489 | 0503 | 0518 | 0533 | 8 11.2 |
| 893 | 0547 | 0562 | 0577 | 0591 | 0606 | 0621 | 0635 | 0650 | 0665 | 0679 | 9 12.6 |
| 894 | 0694 | 0708 | 0723 | 0738 | 0752 | 0767 | 0782 | 0796 | 0811 | 0825 | |
| 895 | 0840 | 0855 | 0869 | 0884 | 0898 | 0913 | 0927 | 0942 | 0957 | 0971 | |
| 896 | 0986 | 1000 | 1015 | 1029 | 1044 | 1058 | 1073 | 1087 | 1102 | 1117 | |
| 897 | 1131 | 1146 | 1160 | 1175 | 1189 | 1204 | 1218 | 1233 | 1247 | 1262 | |
| 898 | 1276 | 1290 | 1305 | 1319 | 1334 | 1348 | 1363 | 1377 | 1392 | 1406 | |
| 899 | 1421 | 1435 | 1449 | 1464 | 1478 | 1493 | 1507 | 1522 | 1536 | 1550 | |
| 0.900 | 9.94 1565 | 1579 | 1594 | 1608 | 1622 | 1637 | 1651 | 1666 | 1680 | 1694 | |

B C 0 1 2 3 4 5 6 7 8 9 PP.

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 0.900 | 9.94 | 1565 | 1579 | 1594 | 1608 | 1622 | 1637 | 1651 | 1666 | 1680 | 1694 | |
| 901 | | 1709 | 1723 | 1737 | 1752 | 1766 | 1780 | 1795 | 1809 | 1823 | 1838 | |
| 902 | | 1852 | 1866 | 1881 | 1895 | 1909 | 1924 | 1938 | 1952 | 1967 | 1981 | |
| 903 | | 1995 | 2009 | 2024 | 2038 | 2052 | 2067 | 2081 | 2095 | 2109 | 2124 | |
| 904 | | 2138 | 2152 | 2166 | 2181 | 2195 | 2209 | 2223 | 2238 | 2252 | 2266 | |
| 905 | | 2280 | 2294 | 2309 | 2323 | 2337 | 2351 | 2365 | 2380 | 2394 | 2408 | |
| 906 | | 2422 | 2436 | 2451 | 2465 | 2479 | 2493 | 2507 | 2521 | 2535 | 2550 | |
| 907 | | 2564 | 2578 | 2592 | 2606 | 2620 | 2634 | 2649 | 2663 | 2677 | 2691 | |
| 908 | | 2705 | 2719 | 2733 | 2747 | 2761 | 2775 | 2790 | 2804 | 2818 | 2832 | |
| 909 | | 2846 | 2860 | 2874 | 2888 | 2902 | 2916 | 2930 | 2944 | 2958 | 2972 | |
| 0.910 | 9.94 | 2986 | 3000 | 3014 | 3028 | 3042 | 3056 | 3070 | 3084 | 3098 | 3112 | |
| 911 | | 3126 | 3140 | 3154 | 3168 | 3182 | 3196 | 3210 | 3224 | 3238 | 3252 | 1 15 |
| 912 | | 3266 | 3280 | 3294 | 3308 | 3322 | 3336 | 3350 | 3364 | 3378 | 3392 | 2 3.0 |
| 913 | | 3405 | 3419 | 3433 | 3447 | 3461 | 3475 | 3489 | 3503 | 3517 | 3531 | 3 4.5 |
| 914 | | 3544 | 3558 | 3572 | 3586 | 3600 | 3614 | 3628 | 3642 | 3655 | 3669 | 4 6.0 |
| 915 | | 3683 | 3697 | 3711 | 3725 | 3738 | 3752 | 3766 | 3780 | 3794 | 3808 | 5 7.5 |
| 916 | | 3821 | 3835 | 3849 | 3863 | 3877 | 3890 | 3904 | 3918 | 3932 | 3946 | 6 9.0 |
| 917 | | 3959 | 3973 | 3987 | 4001 | 4014 | 4028 | 4042 | 4056 | 4069 | 4083 | 7 10.5 |
| 918 | | 4097 | 4111 | 4124 | 4138 | 4152 | 4166 | 4179 | 4193 | 4207 | 4220 | 8 12.0 |
| 919 | | 4234 | 4248 | 4261 | 4275 | 4289 | 4303 | 4316 | 4330 | 4344 | 4357 | 9 13.5 |
| 0.920 | 9.94 | 4371 | 4385 | 4398 | 4412 | 4426 | 4439 | 4453 | 4466 | 4480 | 4494 | |
| 921 | | 4507 | 4521 | 4535 | 4548 | 4562 | 4575 | 4589 | 4603 | 4616 | 4630 | |
| 922 | | 4644 | 4657 | 4671 | 4684 | 4698 | 4711 | 4725 | 4739 | 4752 | 4766 | 1 14 |
| 923 | | 4779 | 4793 | 4806 | 4820 | 4833 | 4847 | 4861 | 4874 | 4888 | 4901 | 2 1.4 |
| 924 | | 4915 | 4928 | 4942 | 4955 | 4969 | 4982 | 4996 | 5009 | 5023 | 5036 | 3 2.8 |
| 925 | | 5050 | 5063 | 5077 | 5090 | 5104 | 5117 | 5131 | 5144 | 5158 | 5171 | 4 4.2 |
| 926 | | 5184 | 5198 | 5211 | 5225 | 5238 | 5252 | 5265 | 5279 | 5292 | 5305 | 5 5.6 |
| 927 | | 5319 | 5332 | 5346 | 5359 | 5372 | 5386 | 5399 | 5413 | 5426 | 5439 | 6 7.0 |
| 928 | | 5453 | 5466 | 5480 | 5493 | 5506 | 5520 | 5533 | 5546 | 5560 | 5573 | 7 8.4 |
| 929 | | 5586 | 5600 | 5613 | 5626 | 5640 | 5653 | 5666 | 5680 | 5693 | 5706 | 8 9.8 |
| 0.930 | 9.94 | 5720 | 5733 | 5746 | 5760 | 5773 | 5786 | 5800 | 5813 | 5826 | 5839 | 9 11.2 |
| 931 | | 5853 | 5866 | 5879 | 5893 | 5906 | 5919 | 5932 | 5946 | 5959 | 5972 | |
| 932 | | 5985 | 5999 | 6012 | 6025 | 6038 | 6052 | 6065 | 6078 | 6091 | 6104 | |
| 933 | | 6118 | 6131 | 6144 | 6157 | 6170 | 6184 | 6197 | 6210 | 6223 | 6236 | |
| 934 | | 6250 | 6263 | 6276 | 6289 | 6302 | 6315 | 6329 | 6342 | 6355 | 6368 | 1 13 |
| 935 | | 6381 | 6394 | 6407 | 6420 | 6434 | 6447 | 6460 | 6473 | 6486 | 6499 | 2 2.6 |
| 936 | | 6512 | 6525 | 6539 | 6552 | 6565 | 6578 | 6591 | 6604 | 6617 | 6630 | 3 3.9 |
| 937 | | 6643 | 6656 | 6669 | 6682 | 6695 | 6709 | 6722 | 6735 | 6748 | 6761 | 4 5.2 |
| 938 | | 6774 | 6787 | 6800 | 6813 | 6826 | 6839 | 6852 | 6865 | 6878 | 6891 | 5 6.5 |
| 939 | | 6904 | 6917 | 6930 | 6943 | 6956 | 6969 | 6982 | 6995 | 7008 | 7021 | 6 7.8 |
| 0.940 | 9.94 | 7034 | 7047 | 7060 | 7073 | 7086 | 7099 | 7112 | 7125 | 7138 | 7150 | 7 9.1 |
| 941 | | 7163 | 7176 | 7189 | 7202 | 7215 | 7228 | 7241 | 7254 | 7267 | 7280 | 8 10.4 |
| 942 | | 7293 | 7306 | 7318 | 7331 | 7344 | 7357 | 7370 | 7383 | 7396 | 7409 | 9 11.7 |
| 943 | | 7421 | 7434 | 7447 | 7460 | 7473 | 7486 | 7499 | 7511 | 7524 | 7537 | |
| 944 | | 7550 | 7563 | 7576 | 7589 | 7601 | 7614 | 7627 | 7640 | 7653 | 7665 | |
| 945 | | 7678 | 7691 | 7704 | 7717 | 7729 | 7742 | 7755 | 7768 | 7781 | 7793 | |
| 946 | | 7806 | 7819 | 7832 | 7844 | 7857 | 7870 | 7883 | 7895 | 7908 | 7921 | |
| 947 | | 7934 | 7946 | 7959 | 7972 | 7985 | 7997 | 8010 | 8023 | 8035 | 8048 | |
| 948 | | 8061 | 8074 | 8086 | 8099 | 8112 | 8124 | 8137 | 8150 | 8162 | 8175 | |
| 949 | | 8188 | 8200 | 8213 | 8226 | 8238 | 8251 | 8264 | 8276 | 8289 | 8302 | |
| 0.950 | 9.94 | 8314 | 8327 | 8340 | 8352 | 8365 | 8377 | 8390 | 8403 | 8415 | 8428 | |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|-----------|------|------|------|------|------|------|------|------|------|------|
| 0.950 | 9.94 8314 | 8327 | 8340 | 8352 | 8365 | 8377 | 8390 | 8403 | 8415 | 8428 | |
| 951 | 8440 | 8453 | 8466 | 8478 | 8491 | 8503 | 8516 | 8529 | 8541 | 8554 | |
| 952 | 8566 | 8579 | 8591 | 8604 | 8617 | 8629 | 8642 | 8654 | 8667 | 8679 | |
| 953 | 8692 | 8704 | 8717 | 8730 | 8742 | 8755 | 8767 | 8780 | 8792 | 8805 | |
| 954 | 8817 | 8830 | 8842 | 8855 | 8867 | 8880 | 8892 | 8905 | 8917 | 8930 | |
| 955 | 8942 | 8955 | 8967 | 8979 | 8992 | 9004 | 9017 | 9029 | 9042 | 9054 | |
| 956 | 9067 | 9079 | 9092 | 9104 | 9116 | 9129 | 9141 | 9154 | 9166 | 9179 | |
| 957 | 9191 | 9203 | 9216 | 9228 | 9241 | 9253 | 9265 | 9278 | 9290 | 9303 | |
| 958 | 9315 | 9327 | 9340 | 9352 | 9364 | 9377 | 9389 | 9401 | 9414 | 9426 | |
| 959 | 9439 | 9451 | 9463 | 9476 | 9488 | 9500 | 9513 | 9525 | 9537 | 9550 | |
| 0.960 | 9.94 9562 | 9574 | 9586 | 9599 | 9611 | 9623 | 9636 | 9648 | 9660 | 9673 | |
| 961 | 9685 | 9697 | 9709 | 9722 | 9734 | 9746 | 9758 | 9771 | 9783 | 9795 | 1.3 |
| 962 | 9807 | 9820 | 9832 | 9844 | 9856 | 9869 | 9881 | 9893 | 9905 | 9918 | 2.6 |
| 963 | 9.94 9930 | 9942 | 9954 | 9966 | 9979 | 9991 | 0003 | 0015 | 0028 | 0040 | 3.9 |
| 964 | 9.95 0052 | 0064 | 0076 | 0088 | 0101 | 0113 | 0125 | 0137 | 0149 | 0161 | 5.2 |
| 965 | 0174 | 0186 | 0198 | 0210 | 0222 | 0234 | 0247 | 0259 | 0271 | 0283 | 6.5 |
| 966 | 0295 | 0307 | 0319 | 0331 | 0344 | 0356 | 0368 | 0380 | 0392 | 0404 | 7.8 |
| 967 | 0416 | 0428 | 0440 | 0452 | 0464 | 0477 | 0489 | 0501 | 0513 | 0525 | 9.1 |
| 968 | 0537 | 0549 | 0561 | 0573 | 0585 | 0597 | 0609 | 0621 | 0633 | 0645 | 10.4 |
| 969 | 0657 | 0669 | 0681 | 0693 | 0706 | 0718 | 0730 | 0742 | 0754 | 0766 | 11.7 |
| 0.970 | 9.95 0778 | 0790 | 0802 | 0814 | 0826 | 0838 | 0850 | 0861 | 0873 | 0885 | |
| 971 | 0897 | 0909 | 0921 | 0933 | 0945 | 0957 | 0969 | 0981 | 0993 | 1005 | |
| 972 | 1017 | 1029 | 1041 | 1053 | 1065 | 1077 | 1089 | 1100 | 1112 | 1124 | 1.2 |
| 973 | 1136 | 1148 | 1160 | 1172 | 1184 | 1196 | 1208 | 1219 | 1231 | 1243 | 2.4 |
| 974 | 1255 | 1267 | 1279 | 1291 | 1303 | 1314 | 1326 | 1338 | 1350 | 1362 | 3.6 |
| 975 | 1374 | 1386 | 1397 | 1409 | 1421 | 1433 | 1445 | 1457 | 1468 | 1480 | 4.8 |
| 976 | 1492 | 1504 | 1516 | 1528 | 1539 | 1551 | 1563 | 1575 | 1587 | 1598 | 6.0 |
| 977 | 1610 | 1622 | 1634 | 1645 | 1657 | 1669 | 1681 | 1693 | 1704 | 1716 | 7.2 |
| 978 | 1728 | 1740 | 1751 | 1763 | 1775 | 1787 | 1798 | 1810 | 1822 | 1834 | 8.4 |
| 979 | 1845 | 1857 | 1869 | 1880 | 1892 | 1904 | 1916 | 1927 | 1939 | 1951 | 9.6 |
| 0.980 | 9.95 1962 | 1974 | 1986 | 1997 | 2009 | 2021 | 2032 | 2044 | 2056 | 2067 | 10.8 |
| 981 | 2079 | 2091 | 2102 | 2114 | 2126 | 2137 | 2149 | 2161 | 2172 | 2184 | |
| 982 | 2196 | 2207 | 2219 | 2231 | 2242 | 2254 | 2265 | 2277 | 2289 | 2300 | |
| 983 | 2312 | 2323 | 2335 | 2347 | 2358 | 2370 | 2381 | 2393 | 2405 | 2416 | |
| 984 | 2428 | 2439 | 2451 | 2463 | 2474 | 2486 | 2497 | 2509 | 2520 | 2532 | 1.1 |
| 985 | 2543 | 2555 | 2566 | 2578 | 2590 | 2601 | 2613 | 2624 | 2636 | 2647 | 2.2 |
| 986 | 2659 | 2670 | 2682 | 2693 | 2705 | 2716 | 2728 | 2739 | 2751 | 2762 | 3.3 |
| 987 | 2774 | 2785 | 2797 | 2808 | 2820 | 2831 | 2843 | 2854 | 2866 | 2877 | 4.4 |
| 988 | 2888 | 2900 | 2911 | 2923 | 2934 | 2946 | 2957 | 2969 | 2980 | 2991 | 5.5 |
| 989 | 3003 | 3014 | 3026 | 3037 | 3049 | 3060 | 3071 | 3083 | 3094 | 3106 | 6.6 |
| 0.990 | 9.95 3117 | 3128 | 3140 | 3151 | 3163 | 3174 | 3185 | 3197 | 3208 | 3220 | |
| 991 | 3231 | 3242 | 3254 | 3265 | 3276 | 3288 | 3299 | 3310 | 3322 | 3333 | 7.7 |
| 992 | 3344 | 3356 | 3367 | 3378 | 3390 | 3401 | 3412 | 3424 | 3435 | 3446 | 8.8 |
| 993 | 3458 | 3469 | 3480 | 3492 | 3503 | 3514 | 3526 | 3537 | 3548 | 3559 | 9.9 |
| 994 | 3571 | 3582 | 3593 | 3605 | 3616 | 3627 | 3638 | 3650 | 3661 | 3672 | |
| 995 | 3683 | 3695 | 3706 | 3717 | 3728 | 3740 | 3751 | 3762 | 3773 | 3785 | |
| 996 | 3796 | 3807 | 3818 | 3829 | 3841 | 3852 | 3863 | 3874 | 3885 | 3897 | |
| 997 | 3908 | 3919 | 3930 | 3941 | 3953 | 3964 | 3975 | 3986 | 3997 | 4009 | |
| 998 | 4020 | 4031 | 4042 | 4053 | 4064 | 4076 | 4087 | 4098 | 4109 | 4120 | |
| 999 | 4131 | 4142 | 4154 | 4165 | 4176 | 4187 | 4198 | 4209 | 4220 | 4231 | |
| 1.000 | 9.95 4243 | 4254 | 4265 | 4276 | 4287 | 4298 | 4309 | 4320 | 4331 | 4342 | |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1.000 | 9.95 | 4243 | 4254 | 4265 | 4276 | 4287 | 4298 | 4309 | 4320 | 4331 | 4342 | |
| 001 | | 4353 | 4365 | 4376 | 4387 | 4398 | 4409 | 4420 | 4431 | 4442 | 4453 | |
| 002 | | 4464 | 4475 | 4486 | 4497 | 4508 | 4519 | 4530 | 4541 | 4553 | 4564 | |
| 003 | | 4575 | 4586 | 4597 | 4608 | 4619 | 4630 | 4641 | 4652 | 4663 | 4674 | |
| 004 | | 4685 | 4696 | 4707 | 4718 | 4729 | 4740 | 4751 | 4762 | 4773 | 4784 | |
| 005 | | 4795 | 4805 | 4816 | 4827 | 4838 | 4849 | 4860 | 4871 | 4882 | 4893 | |
| 006 | | 4904 | 4915 | 4926 | 4937 | 4948 | 4959 | 4970 | 4981 | 4992 | 5002 | |
| 007 | | 5013 | 5024 | 5035 | 5046 | 5057 | 5068 | 5079 | 5090 | 5101 | 5111 | |
| 008 | | 5122 | 5133 | 5144 | 5155 | 5166 | 5177 | 5188 | 5199 | 5209 | 5220 | |
| 009 | | 5231 | 5242 | 5253 | 5264 | 5275 | 5285 | 5296 | 5307 | 5318 | 5329 | |
| 1.010 | 9.95 | 5340 | 5350 | 5361 | 5372 | 5383 | 5394 | 5404 | 5415 | 5426 | 5437 | |
| 011 | | 5448 | 5459 | 5469 | 5480 | 5491 | 5502 | 5512 | 5523 | 5534 | 5545 | |
| 012 | | 5556 | 5566 | 5577 | 5588 | 5599 | 5609 | 5620 | 5631 | 5642 | 5652 | |
| 013 | | 5663 | 5674 | 5685 | 5695 | 5706 | 5717 | 5728 | 5738 | 5749 | 5760 | |
| 014 | | 5771 | 5781 | 5792 | 5803 | 5813 | 5824 | 5835 | 5846 | 5856 | 5867 | |
| 015 | | 5878 | 5888 | 5899 | 5910 | 5920 | 5931 | 5942 | 5952 | 5963 | 5974 | |
| 016 | | 5984 | 5995 | 6006 | 6016 | 6027 | 6038 | 6048 | 6059 | 6070 | 6080 | |
| 017 | | 6091 | 6102 | 6112 | 6123 | 6134 | 6144 | 6155 | 6165 | 6176 | 6187 | |
| 018 | | 6197 | 6208 | 6218 | 6229 | 6240 | 6250 | 6261 | 6271 | 6282 | 6293 | |
| 019 | | 6303 | 6314 | 6324 | 6335 | 6346 | 6356 | 6367 | 6377 | 6388 | 6398 | |
| 1.020 | 9.95 | 6409 | 6419 | 6430 | 6441 | 6451 | 6462 | 6472 | 6483 | 6493 | 6504 | |
| 021 | | 6514 | 6525 | 6535 | 6546 | 6556 | 6567 | 6578 | 6588 | 6599 | 6609 | |
| 022 | | 6620 | 6630 | 6641 | 6651 | 6662 | 6672 | 6683 | 6693 | 6704 | 6714 | |
| 023 | | 6724 | 6735 | 6745 | 6756 | 6766 | 6777 | 6787 | 6798 | 6808 | 6819 | |
| 024 | | 6829 | 6840 | 6850 | 6860 | 6871 | 6881 | 6892 | 6902 | 6913 | 6923 | |
| 025 | | 6933 | 6944 | 6954 | 6965 | 6975 | 6986 | 6996 | 7006 | 7017 | 7027 | |
| 026 | | 7038 | 7048 | 7058 | 7069 | 7079 | 7090 | 7100 | 7110 | 7121 | 7131 | |
| 027 | | 7141 | 7152 | 7162 | 7173 | 7183 | 7193 | 7204 | 7214 | 7224 | 7235 | |
| 028 | | 7245 | 7255 | 7266 | 7276 | 7286 | 7297 | 7307 | 7317 | 7328 | 7338 | |
| 029 | | 7348 | 7359 | 7369 | 7379 | 7390 | 7400 | 7410 | 7421 | 7431 | 7441 | |
| 1.030 | 9.95 | 7451 | 7462 | 7472 | 7482 | 7493 | 7503 | 7513 | 7523 | 7534 | 7544 | |
| 031 | | 7554 | 7565 | 7575 | 7585 | 7595 | 7606 | 7616 | 7626 | 7636 | 7647 | |
| 032 | | 7657 | 7667 | 7677 | 7687 | 7698 | 7708 | 7718 | 7728 | 7739 | 7749 | |
| 033 | | 7759 | 7769 | 7779 | 7790 | 7800 | 7810 | 7820 | 7830 | 7841 | 7851 | |
| 034 | | 7861 | 7871 | 7881 | 7892 | 7902 | 7912 | 7922 | 7932 | 7943 | 7953 | |
| 035 | | 7963 | 7973 | 7983 | 7993 | 8003 | 8014 | 8024 | 8034 | 8044 | 8054 | |
| 036 | | 8064 | 8074 | 8085 | 8095 | 8105 | 8115 | 8125 | 8135 | 8145 | 8155 | |
| 037 | | 8166 | 8176 | 8186 | 8196 | 8206 | 8216 | 8226 | 8236 | 8246 | 8256 | |
| 038 | | 8267 | 8277 | 8287 | 8297 | 8307 | 8317 | 8327 | 8337 | 8347 | 8357 | |
| 039 | | 8367 | 8377 | 8387 | 8397 | 8408 | 8418 | 8428 | 8438 | 8448 | 8458 | |
| 1.040 | 9.95 | 8468 | 8478 | 8488 | 8498 | 8508 | 8518 | 8528 | 8538 | 8548 | 8558 | |
| 041 | | 8568 | 8578 | 8588 | 8598 | 8608 | 8618 | 8628 | 8638 | 8648 | 8658 | |
| 042 | | 8668 | 8678 | 8688 | 8698 | 8708 | 8718 | 8728 | 8738 | 8748 | 8758 | |
| 043 | | 8768 | 8778 | 8788 | 8798 | 8808 | 8817 | 8827 | 8837 | 8847 | 8857 | |
| 044 | | 8867 | 8877 | 8887 | 8897 | 8907 | 8917 | 8927 | 8937 | 8947 | 8956 | |
| 045 | | 8966 | 8976 | 8986 | 8996 | 9006 | 9016 | 9026 | 9036 | 9046 | 9055 | |
| 046 | | 9065 | 9075 | 9085 | 9095 | 9105 | 9115 | 9125 | 9134 | 9144 | 9154 | |
| 047 | | 9164 | 9174 | 9184 | 9194 | 9204 | 9213 | 9223 | 9233 | 9243 | 9253 | |
| 048 | | 9263 | 9273 | 9282 | 9292 | 9302 | 9312 | 9322 | 9331 | 9341 | 9351 | |
| 049 | | 9361 | 9371 | 9380 | 9390 | 9400 | 9410 | 9420 | 9429 | 9439 | 9449 | |
| 1.050 | 9.95 | 9459 | 9469 | 9478 | 9488 | 9498 | 9508 | 9517 | 9527 | 9537 | 9547 | |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1.050 | 9.95 | 9459 | 9469 | 9478 | 9488 | 9498 | 9508 | 9517 | 9527 | 9537 | 9547 | |
| 051 | | 9556 | 9566 | 9576 | 9586 | 9595 | 9605 | 9615 | 9625 | 9634 | 9644 | |
| 052 | | 9654 | 9664 | 9673 | 9683 | 9693 | 9703 | 9712 | 9722 | 9732 | 9741 | |
| 053 | | 9751 | 9761 | 9771 | 9780 | 9790 | 9800 | 9809 | 9819 | 9829 | 9838 | |
| 054 | | 9848 | 9858 | 9868 | 9877 | 9887 | 9897 | 9906 | 9916 | 9926 | 9935 | |
| 055 | 9.95 | 9945 | 9955 | 9964 | 9974 | 9984 | 9993 | 0003 | 0012 | 0022 | 0032 | |
| 056 | 9.96 | 0041 | 0051 | 0061 | 0070 | 0080 | 0090 | 0099 | 0109 | 0118 | 0128 | |
| 057 | | 0138 | 0147 | 0157 | 0166 | 0176 | 0186 | 0195 | 0205 | 0214 | 0224 | |
| 058 | | 0234 | 0243 | 0253 | 0262 | 0272 | 0282 | 0291 | 0301 | 0310 | 0320 | |
| 059 | | 0329 | 0339 | 0349 | 0358 | 0368 | 0377 | 0387 | 0396 | 0406 | 0415 | |
| 1.060 | 9.96 | 0425 | 0434 | 0444 | 0454 | 0463 | 0473 | 0482 | 0492 | 0501 | 0511 | |
| 061 | | 0520 | 0530 | 0539 | 0549 | 0558 | 0568 | 0577 | 0587 | 0596 | 0606 | |
| 062 | | 0615 | 0625 | 0634 | 0644 | 0653 | 0663 | 0672 | 0682 | 0691 | 0701 | |
| 063 | | 0710 | 0720 | 0729 | 0738 | 0748 | 0757 | 0767 | 0776 | 0786 | 0795 | |
| 064 | | 0805 | 0814 | 0824 | 0833 | 0842 | 0852 | 0861 | 0871 | 0880 | 0890 | |
| 065 | | 0899 | 0908 | 0918 | 0927 | 0937 | 0946 | 0955 | 0965 | 0974 | 0984 | |
| 066 | | 0993 | 1002 | 1012 | 1021 | 1031 | 1040 | 1049 | 1059 | 1068 | 1078 | |
| 067 | | 1087 | 1096 | 1106 | 1115 | 1124 | 1134 | 1143 | 1152 | 1162 | 1171 | |
| 068 | | 1181 | 1190 | 1199 | 1209 | 1218 | 1227 | 1237 | 1246 | 1255 | 1265 | |
| 069 | | 1274 | 1283 | 1293 | 1302 | 1311 | 1321 | 1330 | 1339 | 1348 | 1358 | |
| 1.070 | 9.96 | 1367 | 1376 | 1386 | 1395 | 1404 | 1414 | 1423 | 1432 | 1441 | 1451 | |
| 071 | | 1460 | 1469 | 1479 | 1488 | 1497 | 1506 | 1516 | 1525 | 1534 | 1543 | |
| 072 | | 1553 | 1562 | 1571 | 1580 | 1590 | 1599 | 1608 | 1617 | 1627 | 1636 | |
| 073 | | 1645 | 1654 | 1664 | 1673 | 1682 | 1691 | 1700 | 1710 | 1719 | 1728 | |
| 074 | | 1737 | 1747 | 1756 | 1765 | 1774 | 1783 | 1793 | 1802 | 1811 | 1820 | |
| 075 | | 1829 | 1839 | 1848 | 1857 | 1866 | 1875 | 1884 | 1894 | 1903 | 1912 | |
| 076 | | 1921 | 1930 | 1939 | 1949 | 1958 | 1967 | 1976 | 1985 | 1994 | 2003 | |
| 077 | | 2013 | 2022 | 2031 | 2040 | 2049 | 2058 | 2067 | 2077 | 2086 | 2095 | |
| 078 | | 2104 | 2113 | 2122 | 2131 | 2140 | 2149 | 2159 | 2168 | 2177 | 2186 | |
| 079 | | 2195 | 2204 | 2213 | 2222 | 2231 | 2240 | 2249 | 2259 | 2268 | 2277 | |
| 1.080 | 9.96 | 2286 | 2295 | 2304 | 2313 | 2322 | 2331 | 2340 | 2349 | 2358 | 2367 | |
| 081 | | 2376 | 2385 | 2394 | 2404 | 2413 | 2422 | 2431 | 2440 | 2449 | 2458 | |
| 082 | | 2467 | 2476 | 2485 | 2494 | 2503 | 2512 | 2521 | 2530 | 2539 | 2548 | |
| 083 | | 2557 | 2566 | 2575 | 2584 | 2593 | 2602 | 2611 | 2620 | 2629 | 2638 | |
| 084 | | 2647 | 2656 | 2665 | 2674 | 2683 | 2692 | 2701 | 2710 | 2719 | 2728 | |
| 085 | | 2737 | 2746 | 2754 | 2763 | 2772 | 2781 | 2790 | 2799 | 2808 | 2817 | |
| 086 | | 2826 | 2835 | 2844 | 2853 | 2862 | 2871 | 2880 | 2889 | 2897 | 2906 | |
| 087 | | 2915 | 2924 | 2933 | 2942 | 2951 | 2960 | 2969 | 2978 | 2987 | 2995 | |
| 088 | | 3004 | 3013 | 3022 | 3031 | 3040 | 3049 | 3058 | 3067 | 3075 | 3084 | |
| 089 | | 3093 | 3102 | 3111 | 3120 | 3129 | 3137 | 3146 | 3155 | 3164 | 3173 | |
| 1.090 | 9.96 | 3182 | 3191 | 3199 | 3208 | 3217 | 3226 | 3235 | 3244 | 3252 | 3261 | |
| 091 | | 3270 | 3279 | 3288 | 3297 | 3305 | 3314 | 3323 | 3332 | 3341 | 3349 | |
| 092 | | 3358 | 3367 | 3376 | 3385 | 3393 | 3402 | 3411 | 3420 | 3429 | 3437 | |
| 093 | | 3446 | 3455 | 3464 | 3472 | 3481 | 3490 | 3499 | 3508 | 3516 | 3525 | |
| 094 | | 3534 | 3543 | 3551 | 3560 | 3569 | 3578 | 3586 | 3595 | 3604 | 3613 | |
| 095 | | 3621 | 3630 | 3639 | 3648 | 3656 | 3665 | 3674 | 3682 | 3691 | 3700 | |
| 096 | | 3709 | 3717 | 3726 | 3735 | 3743 | 3752 | 3761 | 3770 | 3778 | 3787 | |
| 097 | | 3796 | 3804 | 3813 | 3822 | 3830 | 3839 | 3848 | 3856 | 3865 | 3874 | |
| 098 | | 3882 | 3891 | 3900 | 3908 | 3917 | 3926 | 3934 | 3943 | 3952 | 3960 | |
| 099 | | 3969 | 3978 | 3986 | 3995 | 4004 | 4012 | 4021 | 4030 | 4038 | 4047 | |
| 1.100 | 9.96 | 4055 | 4064 | 4073 | 4081 | 4090 | 4099 | 4107 | 4116 | 4124 | 4133 | |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.100 | 9.96 | 4055 | 4064 | 4073 | 4081 | 4090 | 4099 | 4107 | 4116 | 4124 | 4133 | |
| 101 | | 4142 | 4150 | 4159 | 4167 | 4176 | 4185 | 4193 | 4202 | 4210 | 4219 | |
| 102 | | 4228 | 4236 | 4245 | 4253 | 4262 | 4271 | 4279 | 4288 | 4296 | 4305 | |
| 103 | | 4313 | 4322 | 4331 | 4339 | 4348 | 4356 | 4365 | 4373 | 4382 | 4390 | |
| 104 | | 4399 | 4407 | 4416 | 4425 | 4433 | 4442 | 4450 | 4459 | 4467 | 4476 | |
| 105 | | 4484 | 4493 | 4501 | 4510 | 4518 | 4527 | 4535 | 4544 | 4552 | 4561 | |
| 106 | | 4569 | 4578 | 4586 | 4595 | 4603 | 4612 | 4620 | 4629 | 4637 | 4646 | |
| 107 | | 4654 | 4663 | 4671 | 4680 | 4688 | 4697 | 4705 | 4714 | 4722 | 4730 | |
| 108 | | 4739 | 4747 | 4756 | 4764 | 4773 | 4781 | 4790 | 4798 | 4807 | 4815 | |
| 109 | | 4823 | 4832 | 4840 | 4849 | 4857 | 4866 | 4874 | 4882 | 4891 | 4899 | |
| 1.110 | 9.96 | 4938 | 4916 | 4924 | 4933 | 4941 | 4950 | 4958 | 4967 | 4975 | 4983 | |
| 111 | | 4992 | 5000 | 5008 | 5017 | 5025 | 5034 | 5042 | 5050 | 5059 | 5067 | |
| 112 | | 5076 | 5084 | 5092 | 5101 | 5109 | 5117 | 5126 | 5134 | 5142 | 5151 | 9.9 |
| 113 | | 5159 | 5168 | 5176 | 5184 | 5193 | 5201 | 5209 | 5218 | 5226 | 5234 | 10.0 |
| 114 | | 5243 | 5251 | 5259 | 5268 | 5276 | 5284 | 5293 | 5301 | 5309 | 5318 | 21.8 |
| 115 | | 5326 | 5334 | 5342 | 5351 | 5359 | 5367 | 5376 | 5384 | 5392 | 5401 | 32.7 |
| 116 | | 5409 | 5417 | 5425 | 5434 | 5442 | 5450 | 5459 | 5467 | 5475 | 5483 | 43.6 |
| 117 | | 5492 | 5500 | 5508 | 5516 | 5525 | 5533 | 5541 | 5549 | 5558 | 5566 | 54.5 |
| 118 | | 5574 | 5582 | 5591 | 5599 | 5607 | 5615 | 5624 | 5632 | 5640 | 5648 | 65.4 |
| 119 | | 5657 | 5665 | 5673 | 5681 | 5690 | 5698 | 5706 | 5714 | 5722 | 5731 | 76.3 |
| 1.120 | 9.96 | 5739 | 5747 | 5755 | 5763 | 5772 | 5780 | 5788 | 5796 | 5804 | 5813 | 87.2 |
| 121 | | 5821 | 5829 | 5837 | 5845 | 5854 | 5862 | 5870 | 5878 | 5886 | 5894 | 98.1 |
| 122 | | 5903 | 5911 | 5919 | 5927 | 5935 | 5943 | 5952 | 5960 | 5968 | 5976 | |
| 123 | | 5984 | 5992 | 6000 | 6009 | 6017 | 6025 | 6033 | 6041 | 6049 | 6057 | |
| 124 | | 6066 | 6074 | 6082 | 6090 | 6098 | 6106 | 6114 | 6122 | 6130 | 6139 | |
| 125 | | 6147 | 6155 | 6163 | 6171 | 6179 | 6187 | 6195 | 6203 | 6211 | 6220 | |
| 126 | | 6228 | 6236 | 6244 | 6252 | 6260 | 6268 | 6276 | 6284 | 6292 | 6300 | |
| 127 | | 6308 | 6317 | 6325 | 6333 | 6341 | 6349 | 6357 | 6365 | 6373 | 6381 | |
| 128 | | 6389 | 6397 | 6405 | 6413 | 6421 | 6429 | 6437 | 6445 | 6453 | 6461 | |
| 129 | | 6469 | 6477 | 6485 | 6493 | 6501 | 6509 | 6517 | 6526 | 6534 | 6542 | |
| 1.130 | 9.96 | 6550 | 6558 | 6566 | 6574 | 6582 | 6590 | 6598 | 6606 | 6614 | 6622 | 8 |
| 131 | | 6629 | 6637 | 6645 | 6653 | 6661 | 6669 | 6677 | 6685 | 6693 | 6701 | 10.0 |
| 132 | | 6709 | 6717 | 6725 | 6733 | 6741 | 6749 | 6757 | 6765 | 6773 | 6781 | 21.6 |
| 133 | | 6789 | 6797 | 6805 | 6813 | 6821 | 6829 | 6836 | 6844 | 6852 | 6860 | 32.4 |
| 134 | | 6868 | 6876 | 6884 | 6892 | 6900 | 6908 | 6916 | 6924 | 6932 | 6939 | 43.2 |
| 135 | | 6947 | 6955 | 6963 | 6971 | 6979 | 6987 | 6995 | 7003 | 7011 | 7018 | 54.0 |
| 136 | | 7026 | 7034 | 7042 | 7050 | 7058 | 7066 | 7074 | 7082 | 7089 | 7097 | 64.8 |
| 137 | | 7105 | 7113 | 7121 | 7129 | 7137 | 7144 | 7152 | 7160 | 7168 | 7176 | 75.6 |
| 138 | | 7184 | 7192 | 7199 | 7207 | 7215 | 7223 | 7231 | 7239 | 7246 | 7254 | 86.4 |
| 139 | | 7262 | 7270 | 7278 | 7286 | 7293 | 7301 | 7309 | 7317 | 7325 | 7333 | 97.2 |
| 1.140 | 9.96 | 7340 | 7348 | 7356 | 7364 | 7372 | 7379 | 7387 | 7395 | 7403 | 7411 | |
| 141 | | 7418 | 7426 | 7434 | 7442 | 7449 | 7457 | 7465 | 7473 | 7481 | 7488 | |
| 142 | | 7496 | 7504 | 7512 | 7519 | 7527 | 7535 | 7543 | 7550 | 7558 | 7566 | |
| 143 | | 7574 | 7582 | 7589 | 7597 | 7605 | 7612 | 7620 | 7628 | 7636 | 7643 | |
| 144 | | 7651 | 7659 | 7667 | 7674 | 7682 | 7690 | 7698 | 7705 | 7713 | 7721 | |
| 145 | | 7728 | 7736 | 7744 | 7752 | 7759 | 7767 | 7775 | 7782 | 7790 | 7798 | |
| 146 | | 7805 | 7813 | 7821 | 7829 | 7836 | 7844 | 7852 | 7859 | 7867 | 7875 | |
| 147 | | 7882 | 7890 | 7898 | 7905 | 7913 | 7921 | 7928 | 7936 | 7944 | 7951 | |
| 148 | | 7959 | 7967 | 7974 | 7982 | 7990 | 7997 | 8005 | 8013 | 8020 | 8028 | |
| 149 | | 8035 | 8043 | 8051 | 8058 | 8066 | 8074 | 8081 | 8089 | 8096 | 8104 | |
| 1.150 | 9.96 | 8112 | 8119 | 8127 | 8135 | 8142 | 8150 | 8157 | 8165 | 8173 | 8180 | |
| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
| $\log a - \log b = B \qquad \log (a - b) = \log a + C$ | | | | | | | | | | | | |

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.150 | 9.96 | 8112 | 8119 | 8127 | 8135 | 8142 | 8150 | 8157 | 8165 | 8173 | 8180 | |
| 151 | | 8188 | 8195 | 8203 | 8211 | 8218 | 8226 | 8233 | 8241 | 8249 | 8256 | |
| 152 | | 8264 | 8271 | 8279 | 8286 | 8294 | 8301 | 8309 | 8317 | 8324 | 8332 | |
| 153 | | 8339 | 8347 | 8355 | 8362 | 8370 | 8377 | 8385 | 8392 | 8400 | 8407 | |
| 154 | | 8415 | 8423 | 8430 | 8438 | 8445 | 8453 | 8460 | 8468 | 8475 | 8483 | |
| 155 | | 8490 | 8498 | 8505 | 8513 | 8520 | 8528 | 8535 | 8543 | 8550 | 8558 | |
| 156 | | 8565 | 8573 | 8580 | 8588 | 8595 | 8603 | 8610 | 8618 | 8625 | 8633 | |
| 157 | | 8640 | 8648 | 8655 | 8663 | 8670 | 8678 | 8685 | 8693 | 8700 | 8708 | |
| 158 | | 8715 | 8723 | 8730 | 8738 | 8745 | 8753 | 8760 | 8767 | 8775 | 8782 | |
| 159 | | 8790 | 8797 | 8805 | 8812 | 8820 | 8827 | 8835 | 8842 | 8849 | 8857 | |
| 1.160 | 9.96 | 8864 | 8872 | 8879 | 8887 | 8894 | 8901 | 8909 | 8916 | 8924 | 8931 | |
| 161 | | 8938 | 8946 | 8953 | 8961 | 8968 | 8976 | 8983 | 8990 | 8998 | 9005 | |
| 162 | | 9013 | 9020 | 9027 | 9035 | 9042 | 9050 | 9057 | 9064 | 9072 | 9079 | 7 |
| 163 | | 9086 | 9094 | 9101 | 9109 | 9116 | 9123 | 9131 | 9138 | 9145 | 9153 | 10.7 |
| 164 | | 9160 | 9167 | 9175 | 9182 | 9190 | 9197 | 9204 | 9212 | 9219 | 9226 | 21.4 |
| 165 | | 9234 | 9241 | 9248 | 9256 | 9263 | 9270 | 9278 | 9285 | 9292 | 9300 | 32.1 |
| 166 | | 9307 | 9314 | 9322 | 9329 | 9336 | 9344 | 9351 | 9358 | 9365 | 9373 | 42.8 |
| 167 | | 9380 | 9387 | 9395 | 9402 | 9409 | 9417 | 9424 | 9431 | 9438 | 9446 | 53.5 |
| 168 | | 9453 | 9460 | 9468 | 9475 | 9482 | 9489 | 9497 | 9504 | 9511 | 9519 | 64.2 |
| 169 | | 9526 | 9533 | 9540 | 9548 | 9555 | 9562 | 9569 | 9577 | 9584 | 9591 | 74.9 |
| 1.170 | 9.96 | 9598 | 9606 | 9613 | 9620 | 9627 | 9635 | 9642 | 9649 | 9656 | 9664 | 916.3 |
| 171 | | 9671 | 9678 | 9685 | 9693 | 9700 | 9707 | 9714 | 9721 | 9729 | 9736 | |
| 172 | | 9743 | 9750 | 9757 | 9765 | 9772 | 9779 | 9786 | 9794 | 9801 | 9808 | |
| 173 | | 9815 | 9822 | 9830 | 9837 | 9844 | 9851 | 9858 | 9865 | 9873 | 9880 | |
| 174 | | 9887 | 9894 | 9901 | 9909 | 9916 | 9923 | 9930 | 9937 | 9944 | 9952 | |
| 175 | 9.96 | 9959 | 9966 | 9973 | 9980 | 9987 | 9995 | 0002 | 0009 | 0016 | 0023 | |
| 176 | 9.97 | 0030 | 0037 | 0045 | 0052 | 0059 | 0066 | 0073 | 0080 | 0087 | 0094 | |
| 177 | | 0102 | 0109 | 0116 | 0123 | 0130 | 0137 | 0144 | 0151 | 0159 | 0166 | |
| 178 | | 0173 | 0180 | 0187 | 0194 | 0201 | 0208 | 0215 | 0223 | 0230 | 0237 | |
| 179 | | 0244 | 0251 | 0258 | 0265 | 0272 | 0279 | 0286 | 0293 | 0300 | 0308 | |
| 1.180 | 9.97 | 0315 | 0322 | 0329 | 0336 | 0343 | 0350 | 0357 | 0364 | 0371 | 0378 | 6 |
| 181 | | 0385 | 0392 | 0399 | 0406 | 0414 | 0421 | 0428 | 0435 | 0442 | 0449 | 10.6 |
| 182 | | 0456 | 0463 | 0470 | 0477 | 0484 | 0491 | 0498 | 0505 | 0512 | 0519 | 21.2 |
| 183 | | 0526 | 0533 | 0540 | 0547 | 0554 | 0561 | 0568 | 0575 | 0582 | 0589 | 31.8 |
| 184 | | 0596 | 0603 | 0610 | 0617 | 0624 | 0631 | 0638 | 0645 | 0652 | 0659 | 42.4 |
| 185 | | 0666 | 0673 | 0680 | 0687 | 0694 | 0701 | 0708 | 0715 | 0722 | 0729 | 53.0 |
| 186 | | 0736 | 0743 | 0750 | 0757 | 0764 | 0771 | 0778 | 0785 | 0792 | 0799 | 63.6 |
| 187 | | 0806 | 0813 | 0819 | 0826 | 0833 | 0840 | 0847 | 0854 | 0861 | 0868 | 74.2 |
| 188 | | 0875 | 0882 | 0889 | 0896 | 0903 | 0910 | 0917 | 0924 | 0930 | 0937 | 84.8 |
| 189 | | 0944 | 0951 | 0958 | 0965 | 0972 | 0979 | 0986 | 0993 | 1000 | 1007 | 95.4 |
| 1.190 | 9.97 | 1013 | 1020 | 1027 | 1034 | 1041 | 1048 | 1055 | 1062 | 1069 | 1075 | |
| 191 | | 1082 | 1089 | 1096 | 1103 | 1110 | 1117 | 1124 | 1131 | 1137 | 1144 | |
| 192 | | 1151 | 1158 | 1165 | 1172 | 1179 | 1185 | 1192 | 1199 | 1206 | 1213 | |
| 193 | | 1220 | 1227 | 1233 | 1240 | 1247 | 1254 | 1261 | 1268 | 1274 | 1281 | |
| 194 | | 1288 | 1295 | 1302 | 1309 | 1315 | 1322 | 1329 | 1336 | 1343 | 1350 | |
| 195 | | 1356 | 1363 | 1370 | 1377 | 1384 | 1390 | 1397 | 1404 | 1411 | 1418 | |
| 196 | | 1425 | 1431 | 1438 | 1445 | 1452 | 1458 | 1465 | 1472 | 1479 | 1486 | |
| 197 | | 1492 | 1499 | 1506 | 1513 | 1520 | 1526 | 1533 | 1540 | 1547 | 1553 | |
| 198 | | 1560 | 1567 | 1574 | 1580 | 1587 | 1594 | 1601 | 1607 | 1614 | 1621 | |
| 199 | | 1628 | 1635 | 1641 | 1648 | 1655 | 1662 | 1668 | 1675 | 1682 | 1688 | |
| 1.200 | 9.97 | 1695 | 1702 | 1709 | 1715 | 1722 | 1729 | 1736 | 1742 | 1749 | 1756 | |

| B | C | J | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.200 | 9.97 | 1695 | 1702 | 1709 | 1715 | 1722 | 1729 | 1736 | 1742 | 1749 | 1756 | |
| 201 | | 1762 | 1769 | 1776 | 1783 | 1789 | 1796 | 1803 | 1809 | 1816 | 1823 | |
| 202 | | 1830 | 1836 | 1843 | 1850 | 1856 | 1863 | 1870 | 1876 | 1883 | 1890 | |
| 203 | | 1897 | 1903 | 1910 | 1917 | 1923 | 1930 | 1937 | 1943 | 1950 | 1957 | |
| 204 | | 1965 | 1970 | 1977 | 1983 | 1990 | 1997 | 2003 | 2010 | 2017 | 2023 | |
| 205 | | 2030 | 2037 | 2043 | 2050 | 2056 | 2063 | 2070 | 2076 | 2083 | 2090 | |
| 206 | | 2096 | 2103 | 2110 | 2116 | 2123 | 2129 | 2136 | 2143 | 2149 | 2156 | |
| 207 | | 2163 | 2169 | 2176 | 2182 | 2189 | 2196 | 2202 | 2209 | 2216 | 2222 | |
| 208 | | 2229 | 2235 | 2242 | 2249 | 2255 | 2262 | 2268 | 2275 | 2281 | 2288 | |
| 209 | | 2295 | 2301 | 2308 | 2314 | 2321 | 2328 | 2334 | 2341 | 2347 | 2354 | |
| 1.210 | 9.97 | 2360 | 2367 | 2374 | 2380 | 2387 | 2393 | 2400 | 2406 | 2413 | 2420 | |
| 211 | | 2426 | 2433 | 2439 | 2446 | 2452 | 2459 | 2465 | 2472 | 2478 | 2485 | |
| 212 | | 2492 | 2498 | 2505 | 2511 | 2518 | 2524 | 2531 | 2537 | 2544 | 2550 | |
| 213 | | 2557 | 2563 | 2570 | 2576 | 2583 | 2589 | 2596 | 2602 | 2609 | 2616 | 7 |
| 214 | | 2622 | 2629 | 2635 | 2642 | 2648 | 2655 | 2661 | 2668 | 2674 | 2681 | 10.7 |
| 215 | | 2687 | 2694 | 2700 | 2706 | 2713 | 2719 | 2726 | 2732 | 2739 | 2745 | 1.4 |
| 216 | | 2752 | 2758 | 2765 | 2771 | 2778 | 2784 | 2791 | 2797 | 2804 | 2810 | 3.2 |
| 217 | | 2817 | 2823 | 2829 | 2836 | 2842 | 2849 | 2855 | 2862 | 2868 | 2875 | 4.2 |
| 218 | | 2881 | 2887 | 2894 | 2900 | 2907 | 2913 | 2920 | 2926 | 2933 | 2939 | 5.3 |
| 219 | | 2945 | 2952 | 2958 | 2965 | 2971 | 2978 | 2984 | 2990 | 2997 | 3003 | 6.4 |
| 1.220 | 9.97 | 3010 | 3016 | 3022 | 3029 | 3035 | 3042 | 3048 | 3054 | 3061 | 3067 | 7.9 |
| 221 | | 3074 | 3080 | 3086 | 3093 | 3099 | 3106 | 3112 | 3118 | 3125 | 3131 | 8.5 |
| 222 | | 3138 | 3144 | 3150 | 3157 | 3163 | 3169 | 3176 | 3182 | 3189 | 3195 | 9.6 |
| 223 | | 3201 | 3208 | 3214 | 3220 | 3227 | 3233 | 3239 | 3246 | 3252 | 3258 | |
| 224 | | 3265 | 3271 | 3278 | 3284 | 3290 | 3297 | 3303 | 3309 | 3316 | 3322 | |
| 225 | | 3328 | 3335 | 3341 | 3347 | 3354 | 3360 | 3366 | 3373 | 3379 | 3385 | |
| 226 | | 3391 | 3398 | 3404 | 3410 | 3417 | 3423 | 3429 | 3436 | 3442 | 3448 | |
| 227 | | 3455 | 3461 | 3467 | 3473 | 3480 | 3486 | 3492 | 3499 | 3505 | 3511 | |
| 228 | | 3518 | 3524 | 3530 | 3536 | 3543 | 3549 | 3555 | 3562 | 3568 | 3574 | |
| 229 | | 3580 | 3587 | 3593 | 3599 | 3605 | 3612 | 3618 | 3624 | 3630 | 3637 | |
| 1.230 | 9.97 | 3643 | 3649 | 3655 | 3662 | 3668 | 3674 | 3681 | 3687 | 3693 | 3699 | |
| 231 | | 3705 | 3712 | 3718 | 3724 | 3730 | 3737 | 3743 | 3749 | 3755 | 3762 | |
| 232 | | 3768 | 3774 | 3780 | 3786 | 3793 | 3799 | 3805 | 3811 | 3818 | 3824 | |
| 233 | | 3830 | 3836 | 3842 | 3849 | 3855 | 3861 | 3867 | 3873 | 3880 | 3886 | |
| 234 | | 3892 | 3898 | 3904 | 3911 | 3917 | 3923 | 3929 | 3935 | 3942 | 3948 | |
| 235 | | 3954 | 3960 | 3966 | 3972 | 3979 | 3985 | 3991 | 3997 | 4003 | 4009 | |
| 236 | | 4016 | 4022 | 4028 | 4034 | 4040 | 4046 | 4053 | 4059 | 4065 | 4071 | |
| 237 | | 4077 | 4083 | 4090 | 4096 | 4102 | 4108 | 4114 | 4120 | 4126 | 4133 | |
| 238 | | 4139 | 4145 | 4151 | 4157 | 4163 | 4169 | 4175 | 4182 | 4188 | 4194 | |
| 239 | | 4200 | 4206 | 4212 | 4218 | 4224 | 4231 | 4237 | 4243 | 4249 | 4255 | |
| 1.240 | 9.97 | 4261 | 4267 | 4273 | 4279 | 4285 | 4292 | 4298 | 4304 | 4310 | 4316 | |
| 241 | | 4322 | 4328 | 4334 | 4340 | 4346 | 4353 | 4359 | 4365 | 4371 | 4377 | |
| 242 | | 4383 | 4389 | 4395 | 4401 | 4407 | 4413 | 4419 | 4425 | 4431 | 4438 | |
| 243 | | 4444 | 4450 | 4456 | 4462 | 4468 | 4474 | 4480 | 4486 | 4492 | 4498 | |
| 244 | | 4504 | 4510 | 4516 | 4522 | 4528 | 4534 | 4540 | 4546 | 4552 | 4558 | |
| 245 | | 4565 | 4571 | 4577 | 4583 | 4589 | 4595 | 4601 | 4607 | 4613 | 4619 | |
| 246 | | 4625 | 4631 | 4637 | 4643 | 4649 | 4655 | 4661 | 4667 | 4673 | 4679 | |
| 247 | | 4685 | 4691 | 4697 | 4703 | 4709 | 4715 | 4721 | 4727 | 4733 | 4739 | |
| 248 | | 4745 | 4751 | 4757 | 4763 | 4769 | 4775 | 4781 | 4787 | 4793 | 4799 | |
| 249 | | 4805 | 4811 | 4817 | 4823 | 4828 | 4834 | 4840 | 4846 | 4852 | 4858 | |
| 1.250 | 9.97 | 4864 | 4870 | 4876 | 4882 | 4888 | 4894 | 4900 | 4906 | 4912 | 4918 | |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1.250 | 9.97 | 4864 | 4870 | 4876 | 4882 | 4888 | 4894 | 4900 | 4906 | 4912 | 4918 | |
| 251 | | 4924 | 4930 | 4936 | 4942 | 4948 | 4953 | 4959 | 4965 | 4971 | 4977 | |
| 252 | | 4983 | 4989 | 4995 | 5001 | 5007 | 5013 | 5019 | 5025 | 5031 | 5036 | |
| 253 | | 5042 | 5048 | 5054 | 5060 | 5066 | 5072 | 5078 | 5084 | 5090 | 5096 | |
| 254 | | 5101 | 5107 | 5113 | 5119 | 5125 | 5131 | 5137 | 5143 | 5149 | 5154 | |
| 255 | | 5160 | 5166 | 5172 | 5178 | 5184 | 5190 | 5196 | 5202 | 5207 | 5213 | |
| 256 | | 5219 | 5225 | 5231 | 5237 | 5243 | 5249 | 5254 | 5260 | 5266 | 5272 | |
| 257 | | 5278 | 5284 | 5290 | 5295 | 5301 | 5307 | 5313 | 5319 | 5325 | 5330 | |
| 258 | | 5336 | 5342 | 5348 | 5354 | 5360 | 5366 | 5371 | 5377 | 5383 | 5389 | |
| 259 | | 5395 | 5401 | 5406 | 5412 | 5418 | 5424 | 5430 | 5435 | 5441 | 5447 | |
| 1.260 | 9.97 | 5453 | 5459 | 5465 | 5470 | 5476 | 5482 | 5488 | 5494 | 5499 | 5505 | |
| 261 | | 5511 | 5517 | 5523 | 5528 | 5534 | 5540 | 5546 | 5552 | 5557 | 5563 | |
| 262 | | 5569 | 5575 | 5580 | 5586 | 5592 | 5598 | 5604 | 5609 | 5615 | 5621 | |
| 263 | | 5627 | 5632 | 5638 | 5644 | 5650 | 5656 | 5661 | 5667 | 5673 | 5679 | |
| 264 | | 5684 | 5690 | 5696 | 5702 | 5707 | 5713 | 5719 | 5725 | 5730 | 5736 | |
| 265 | | 5742 | 5748 | 5753 | 5759 | 5765 | 5771 | 5776 | 5782 | 5788 | 5794 | |
| 266 | | 5799 | 5805 | 5811 | 5816 | 5822 | 5828 | 5834 | 5839 | 5845 | 5851 | |
| 267 | | 5857 | 5862 | 5868 | 5874 | 5879 | 5885 | 5891 | 5896 | 5902 | 5908 | |
| 268 | | 5914 | 5919 | 5925 | 5931 | 5936 | 5942 | 5948 | 5953 | 5959 | 5965 | |
| 269 | | 5971 | 5976 | 5982 | 5988 | 5993 | 5999 | 6005 | 6010 | 6016 | 6022 | |
| 1.270 | 9.97 | 6027 | 6033 | 6039 | 6044 | 6050 | 6056 | 6061 | 6067 | 6073 | 6078 | |
| 271 | | 6084 | 6090 | 6095 | 6101 | 6107 | 6112 | 6118 | 6124 | 6129 | 6135 | |
| 272 | | 6141 | 6146 | 6152 | 6158 | 6163 | 6169 | 6174 | 6180 | 6186 | 6191 | |
| 273 | | 6197 | 6203 | 6208 | 6214 | 6220 | 6225 | 6231 | 6236 | 6242 | 6248 | |
| 274 | | 6253 | 6259 | 6265 | 6270 | 6276 | 6281 | 6287 | 6293 | 6298 | 6304 | |
| 275 | | 6309 | 6315 | 6321 | 6326 | 6332 | 6337 | 6343 | 6349 | 6354 | 6360 | |
| 276 | | 6365 | 6371 | 6377 | 6382 | 6388 | 6393 | 6399 | 6405 | 6410 | 6416 | |
| 277 | | 6421 | 6427 | 6432 | 6438 | 6444 | 6449 | 6455 | 6460 | 6466 | 6471 | |
| 278 | | 6477 | 6483 | 6488 | 6494 | 6499 | 6505 | 6510 | 6516 | 6521 | 6527 | |
| 279 | | 6533 | 6538 | 6544 | 6549 | 6555 | 6560 | 6566 | 6571 | 6577 | 6583 | |
| 1.280 | 9.97 | 6588 | 6594 | 6599 | 6605 | 6610 | 6616 | 6621 | 6627 | 6632 | 6638 | |
| 281 | | 6643 | 6649 | 6654 | 6660 | 6665 | 6671 | 6676 | 6682 | 6688 | 6693 | |
| 282 | | 6699 | 6704 | 6710 | 6715 | 6721 | 6726 | 6732 | 6737 | 6743 | 6748 | |
| 283 | | 6754 | 6759 | 6765 | 6770 | 6776 | 6781 | 6787 | 6792 | 6798 | 6803 | |
| 284 | | 6809 | 6814 | 6819 | 6825 | 6830 | 6836 | 6841 | 6847 | 6852 | 6858 | |
| 285 | | 6863 | 6869 | 6874 | 6880 | 6885 | 6891 | 6896 | 6902 | 6907 | 6912 | |
| 286 | | 6918 | 6923 | 6929 | 6934 | 6940 | 6945 | 6951 | 6956 | 6962 | 6967 | |
| 287 | | 6972 | 6978 | 6983 | 6989 | 6994 | 7000 | 7005 | 7011 | 7016 | 7021 | |
| 288 | | 7027 | 7032 | 7038 | 7043 | 7049 | 7054 | 7059 | 7065 | 7070 | 7076 | |
| 289 | | 7081 | 7087 | 7092 | 7097 | 7103 | 7108 | 7114 | 7119 | 7124 | 7130 | |
| 1.290 | 9.97 | 7135 | 7141 | 7146 | 7151 | 7157 | 7162 | 7168 | 7173 | 7178 | 7184 | |
| 291 | | 7189 | 7195 | 7200 | 7205 | 7211 | 7216 | 7222 | 7227 | 7232 | 7238 | |
| 292 | | 7243 | 7248 | 7254 | 7259 | 7265 | 7270 | 7275 | 7281 | 7286 | 7291 | |
| 293 | | 7297 | 7302 | 7308 | 7313 | 7318 | 7324 | 7329 | 7334 | 7340 | 7345 | |
| 294 | | 7350 | 7356 | 7361 | 7366 | 7372 | 7377 | 7383 | 7388 | 7393 | 7399 | |
| 295 | | 7404 | 7409 | 7415 | 7420 | 7425 | 7431 | 7436 | 7441 | 7447 | 7452 | |
| 296 | | 7457 | 7463 | 7468 | 7473 | 7479 | 7484 | 7489 | 7495 | 7500 | 7505 | |
| 297 | | 7510 | 7516 | 7521 | 7526 | 7532 | 7537 | 7542 | 7548 | 7553 | 7558 | |
| 298 | | 7564 | 7569 | 7574 | 7579 | 7585 | 7590 | 7595 | 7601 | 7606 | 7611 | |
| 299 | | 7617 | 7622 | 7627 | 7632 | 7638 | 7643 | 7648 | 7653 | 7659 | 7664 | |
| 1.300 | 9.97 | 7669 | 7675 | 7680 | 7685 | 7690 | 7696 | 7701 | 7706 | 7711 | 7717 | |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--|
| 1.30 | 9.97 | 7669 | 7722 | 7775 | 7827 | 7879 | 7932 | 7984 | 8036 | 8087 | 8139 | 53 52 51 1 53 52 51 2 10.6 10.4 10.2 3 15.9 15.6 15.3 4 21.2 20.8 20.4 5 26.5 26.0 25.5 6 31.8 31.2 30.6 7 37.1 36.4 35.7 8 42.4 41.6 40.8 9 47.7 46.8 45.9 |
| 31 | | 8191 | 8242 | 8293 | 8345 | 8396 | 8447 | 8497 | 8548 | 8599 | 8649 | 50 49 48 1 50 49 48 2 10.0 9.8 9.6 3 15.0 14.7 14.4 4 20.0 19.6 19.2 5 25.0 24.5 24.0 6 30.0 29.4 28.8 7 35.0 34.3 33.6 8 40.0 39.2 38.4 9 45.0 44.1 43.2 |
| 32 | | 8699 | 8750 | 8800 | 8850 | 8900 | 8949 | 8999 | 9048 | 9098 | 9147 | |
| 33 | | 9196 | 9245 | 9294 | 9343 | 9391 | 9440 | 9488 | 9537 | 9585 | 9633 | |
| 34 | 9.97 | 9681 | 9729 | 9776 | 9824 | 9872 | 9919 | 9966 | 10013 | 10060 | 10107 | |
| 35 | 9.98 | 0154 | 0201 | 0247 | 0294 | 0340 | 0387 | 0433 | 0479 | 0525 | 0570 | |
| 36 | | 0616 | 0662 | 0707 | 0753 | 0798 | 0843 | 0888 | 0933 | 0978 | 1023 | |
| 37 | | 1067 | 1112 | 1156 | 1200 | 1245 | 1289 | 1333 | 1376 | 1420 | 1464 | |
| 38 | | 1507 | 1551 | 1594 | 1637 | 1681 | 1724 | 1767 | 1809 | 1852 | 1895 | |
| 39 | | 1937 | 1980 | 2022 | 2064 | 2106 | 2148 | 2190 | 2232 | 2274 | 2315 | |
| 1.40 | 9.98 | 2357 | 2398 | 2440 | 2481 | 2522 | 2563 | 2604 | 2645 | 2685 | 2726 | |
| 41 | | 2767 | 2807 | 2847 | 2888 | 2928 | 2968 | 3008 | 3048 | 3087 | 3127 | |
| 42 | | 3167 | 3206 | 3245 | 3285 | 3324 | 3363 | 3402 | 3441 | 3480 | 3518 | |
| 43 | | 3557 | 3596 | 3634 | 3672 | 3711 | 3749 | 3787 | 3825 | 3863 | 3901 | |
| 44 | | 3938 | 3976 | 4014 | 4051 | 4088 | 4126 | 4163 | 4200 | 4237 | 4274 | |
| 45 | | 4311 | 4347 | 4384 | 4421 | 4457 | 4493 | 4530 | 4566 | 4602 | 4638 | |
| 46 | | 4674 | 4710 | 4746 | 4782 | 4817 | 4853 | 4888 | 4923 | 4959 | 4994 | |
| 47 | | 5029 | 5064 | 5099 | 5134 | 5169 | 5203 | 5238 | 5273 | 5307 | 5341 | |
| 48 | | 5376 | 5410 | 5444 | 5478 | 5512 | 5546 | 5580 | 5613 | 5647 | 5681 | |
| 49 | | 5714 | 5747 | 5781 | 5814 | 5847 | 5880 | 5913 | 5946 | 5979 | 6012 | |
| 1.50 | 9.98 | 6045 | 6077 | 6110 | 6142 | 6175 | 6207 | 6239 | 6271 | 6303 | 6335 | |
| 51 | | 6367 | 6399 | 6431 | 6463 | 6494 | 6526 | 6557 | 6589 | 6620 | 6651 | |
| 52 | | 6682 | 6713 | 6745 | 6775 | 6806 | 6837 | 6868 | 6899 | 6929 | 6960 | |
| 53 | | 6990 | 7021 | 7051 | 7081 | 7111 | 7141 | 7171 | 7201 | 7231 | 7261 | |
| 54 | | 7291 | 7320 | 7350 | 7379 | 7409 | 7438 | 7468 | 7497 | 7526 | 7555 | |
| 55 | | 7584 | 7613 | 7642 | 7671 | 7700 | 7728 | 7757 | 7785 | 7814 | 7842 | |
| 56 | | 7871 | 7899 | 7927 | 7955 | 7983 | 8012 | 8039 | 8067 | 8095 | 8123 | |
| 57 | | 8151 | 8178 | 8206 | 8233 | 8261 | 8288 | 8315 | 8343 | 8370 | 8397 | |
| 58 | | 8424 | 8451 | 8478 | 8505 | 8532 | 8558 | 8585 | 8612 | 8639 | 8665 | |
| 59 | | 8691 | 8717 | 8744 | 8770 | 8796 | 8822 | 8848 | 8874 | 8900 | 8926 | |
| 1.60 | 9.98 | 8952 | 8977 | 9003 | 9029 | 9054 | 9080 | 9105 | 9131 | 9156 | 9181 | |
| 61 | | 9206 | 9231 | 9257 | 9282 | 9306 | 9331 | 9356 | 9381 | 9406 | 9430 | |
| 62 | | 9455 | 9480 | 9504 | 9528 | 9553 | 9577 | 9601 | 9626 | 9650 | 9674 | |
| 63 | | 9698 | 9722 | 9746 | 9770 | 9793 | 9817 | 9841 | 9865 | 9888 | 9912 | |
| 64 | 9.98 | 9935 | 9959 | 9982 | 10005 | 10028 | 10052 | 10075 | 10098 | 10121 | 10144 | |
| 65 | 9.99 | 0167 | 0190 | 0213 | 0235 | 0258 | 0281 | 0303 | 0326 | 0348 | 0371 | |
| 66 | | 0393 | 0416 | 0438 | 0460 | 0482 | 0504 | 0526 | 0548 | 0570 | 0592 | |
| 67 | | 0614 | 0636 | 0658 | 0680 | 0701 | 0723 | 0744 | 0766 | 0787 | 0809 | |
| 68 | | 0830 | 0851 | 0873 | 0894 | 0915 | 0936 | 0957 | 0978 | 0999 | 1020 | |
| 69 | | 1041 | 1062 | 1083 | 1103 | 1124 | 1145 | 1165 | 1186 | 1206 | 1227 | |
| 1.70 | 9.99 | 1247 | 1267 | 1288 | 1308 | 1328 | 1348 | 1368 | 1388 | 1408 | 1428 | |
| 71 | | 1448 | 1468 | 1488 | 1508 | 1527 | 1547 | 1567 | 1586 | 1606 | 1625 | |
| 72 | | 1644 | 1664 | 1684 | 1703 | 1722 | 1741 | 1761 | 1780 | 1799 | 1818 | |
| 73 | | 1837 | 1856 | 1875 | 1894 | 1912 | 1931 | 1950 | 1969 | 1987 | 2006 | |
| 74 | | 2024 | 2043 | 2061 | 2080 | 2098 | 2116 | 2135 | 2153 | 2171 | 2189 | |
| 75 | | 2208 | 2226 | 2244 | 2262 | 2280 | 2298 | 2315 | 2333 | 2351 | 2369 | |
| 76 | | 2386 | 2404 | 2422 | 2439 | 2457 | 2474 | 2492 | 2509 | 2527 | 2544 | |
| 77 | | 2561 | 2579 | 2596 | 2613 | 2630 | 2647 | 2664 | 2681 | 2698 | 2715 | |
| 78 | | 2732 | 2749 | 2766 | 2782 | 2799 | 2816 | 2833 | 2849 | 2866 | 2882 | |
| 79 | | 2899 | 2915 | 2932 | 2948 | 2964 | 2981 | 2997 | 3013 | 3029 | 3046 | |
| 1.80 | 9.99 | 3062 | 3078 | 3094 | 3110 | 3126 | 3142 | 3158 | 3174 | 3189 | 3205 | |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 1.80 | 9.99 | 3062 | 3078 | 3094 | 3110 | 3126 | 3142 | 3158 | 3174 | 3189 | 3205 | |
| 81 | | 3221 | 3237 | 3252 | 3268 | 3284 | 3299 | 3315 | 3330 | 3346 | 3361 | 32 31 30 |
| 82 | | 3376 | 3392 | 3407 | 3422 | 3438 | 3453 | 3468 | 3483 | 3498 | 3513 | 1 32 31 30 |
| 83 | | 3528 | 3543 | 3558 | 3573 | 3588 | 3603 | 3618 | 3633 | 3647 | 3662 | 2 64 62 60 60 |
| 84 | | 3677 | 3691 | 3706 | 3721 | 3735 | 3750 | 3764 | 3779 | 3793 | 3807 | 3 96 93 90 90 |
| 85 | | 3822 | 3836 | 3850 | 3865 | 3879 | 3893 | 3907 | 3921 | 3935 | 3949 | 4 128 124 120 120 |
| 86 | | 3993 | 3977 | 3991 | 4005 | 4019 | 4033 | 4047 | 4060 | 4074 | 4088 | 5 160 155 150 150 |
| 87 | | 4102 | 4115 | 4129 | 4143 | 4156 | 4170 | 4183 | 4197 | 4210 | 4223 | 6 192 186 180 180 |
| 88 | | 4237 | 4250 | 4263 | 4277 | 4290 | 4303 | 4316 | 4330 | 4343 | 4356 | 7 224 217 210 210 |
| 89 | | 4369 | 4382 | 4395 | 4408 | 4421 | 4434 | 4447 | 4459 | 4472 | 4485 | 8 256 248 240 240 |
| 1.90 | 9.99 | 4498 | 4511 | 4523 | 4536 | 4549 | 4561 | 4574 | 4586 | 4599 | 4611 | 9 288 279 270 270 |
| 91 | | 4624 | 4636 | 4649 | 4661 | 4673 | 4686 | 4698 | 4710 | 4723 | 4735 | 29 28 27 |
| 92 | | 4747 | 4759 | 4771 | 4783 | 4795 | 4807 | 4819 | 4831 | 4843 | 4855 | 1 29 28 27 |
| 93 | | 4867 | 4879 | 4891 | 4903 | 4915 | 4926 | 4938 | 4950 | 4962 | 4973 | 2 58 56 54 |
| 94 | | 4985 | 4996 | 5008 | 5020 | 5031 | 5043 | 5054 | 5065 | 5077 | 5088 | 3 87 84 81 |
| 95 | | 5100 | 5111 | 5122 | 5134 | 5145 | 5156 | 5167 | 5178 | 5190 | 5201 | 4 116 112 108 |
| 96 | | 5212 | 5223 | 5234 | 5245 | 5256 | 5267 | 5278 | 5289 | 5300 | 5310 | 5 145 140 135 |
| 97 | | 5321 | 5332 | 5343 | 5354 | 5364 | 5375 | 5386 | 5397 | 5407 | 5418 | 6 174 168 162 |
| 98 | | 5428 | 5439 | 5450 | 5460 | 5471 | 5481 | 5491 | 5502 | 5512 | 5523 | 7 203 196 189 |
| 99 | | 5533 | 5543 | 5554 | 5564 | 5574 | 5584 | 5595 | 5605 | 5615 | 5625 | 8 232 224 216 |
| 2.00 | 9.99 | 5635 | 5645 | 5655 | 5665 | 5675 | 5685 | 5695 | 5705 | 5715 | 5725 | 9 261 252 243 |
| 01 | | 5735 | 5745 | 5755 | 5765 | 5774 | 5784 | 5794 | 5804 | 5813 | 5823 | 26 25 24 |
| 02 | | 5833 | 5842 | 5852 | 5861 | 5871 | 5881 | 5890 | 5900 | 5909 | 5918 | 1 26 25 24 |
| 03 | | 5928 | 5937 | 5947 | 5956 | 5965 | 5975 | 5984 | 5993 | 6003 | 6012 | 2 52 50 48 |
| 04 | | 6021 | 6030 | 6039 | 6049 | 6058 | 6067 | 6076 | 6085 | 6094 | 6103 | 3 78 75 72 |
| 05 | | 6112 | 6121 | 6130 | 6139 | 6148 | 6157 | 6166 | 6174 | 6183 | 6192 | 4 104 100 96 |
| 06 | | 6201 | 6210 | 6218 | 6227 | 6236 | 6245 | 6253 | 6262 | 6271 | 6279 | 5 130 125 120 |
| 07 | | 6288 | 6296 | 6305 | 6313 | 6322 | 6330 | 6339 | 6347 | 6356 | 6364 | 6 156 150 144 |
| 08 | | 6373 | 6381 | 6389 | 6398 | 6406 | 6414 | 6423 | 6431 | 6439 | 6447 | 7 182 175 168 |
| 09 | | 6455 | 6464 | 6472 | 6480 | 6488 | 6496 | 6504 | 6512 | 6520 | 6528 | 8 208 200 192 |
| 2.10 | 9.99 | 6537 | 6544 | 6552 | 6560 | 6568 | 6576 | 6584 | 6592 | 6600 | 6608 | 9 234 225 216 |
| 11 | | 6616 | 6623 | 6631 | 6639 | 6647 | 6655 | 6662 | 6670 | 6678 | 6685 | 19 18 17 |
| 12 | | 6693 | 6701 | 6708 | 6716 | 6723 | 6731 | 6739 | 6745 | 6754 | 6761 | 1 19 18 17 |
| 13 | | 6769 | 6776 | 6783 | 6791 | 6798 | 6806 | 6813 | 6820 | 6828 | 6835 | 2 38 36 34 |
| 14 | | 6842 | 6850 | 6857 | 6864 | 6871 | 6879 | 6886 | 6893 | 6900 | 6907 | 3 70 67 64 |
| 15 | | 6914 | 6922 | 6929 | 6936 | 6943 | 6950 | 6957 | 6964 | 6971 | 6978 | 4 96 92 88 |
| 16 | | 6985 | 6992 | 6999 | 7006 | 7013 | 7020 | 7026 | 7033 | 7040 | 7047 | 5 122 117 112 |
| 17 | | 7054 | 7061 | 7067 | 7074 | 7081 | 7088 | 7094 | 7101 | 7108 | 7114 | 6 148 142 136 |
| 18 | | 7121 | 7128 | 7134 | 7141 | 7148 | 7154 | 7161 | 7167 | 7174 | 7180 | 7 174 168 162 |
| 19 | | 7187 | 7193 | 7200 | 7206 | 7213 | 7219 | 7226 | 7232 | 7238 | 7245 | 8 200 194 188 |
| 2.20 | 9.99 | 7251 | 7257 | 7264 | 7270 | 7276 | 7283 | 7289 | 7295 | 7301 | 7308 | 9 226 217 208 |
| 21 | | 7314 | 7320 | 7326 | 7332 | 7338 | 7345 | 7351 | 7357 | 7363 | 7369 | 16 15 14 |
| 22 | | 7375 | 7381 | 7387 | 7393 | 7399 | 7405 | 7411 | 7417 | 7423 | 7429 | 1 16 15 14 |
| 23 | | 7435 | 7441 | 7447 | 7453 | 7459 | 7465 | 7470 | 7476 | 7482 | 7488 | 2 42 40 38 |
| 24 | | 7494 | 7499 | 7505 | 7511 | 7517 | 7522 | 7528 | 7534 | 7540 | 7545 | 3 68 64 60 |
| 25 | | 7551 | 7557 | 7562 | 7568 | 7573 | 7579 | 7585 | 7590 | 7596 | 7601 | 4 94 89 85 |
| 26 | | 7607 | 7612 | 7618 | 7623 | 7629 | 7634 | 7640 | 7645 | 7651 | 7656 | 5 120 114 108 |
| 27 | | 7661 | 7667 | 7672 | 7678 | 7683 | 7688 | 7694 | 7699 | 7704 | 7710 | 6 146 139 132 |
| 28 | | 7715 | 7720 | 7725 | 7731 | 7736 | 7741 | 7746 | 7751 | 7757 | 7762 | 7 172 165 158 |
| 29 | | 7767 | 7772 | 7777 | 7782 | 7787 | 7793 | 7798 | 7803 | 7808 | 7813 | 8 200 193 186 |
| 2.30 | 9.99 | 7818 | 7823 | 7828 | 7833 | 7838 | 7843 | 7848 | 7853 | 7858 | 7863 | 9 226 217 208 |

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
|---|---|---|---|---|---|---|---|---|---|---|---|-----|

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS - LOGARITHMEN.

| | B | C 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 2.30 | 9.99 | 7818 | 7823 | 7828 | 7833 | 7838 | 7843 | 7848 | 7853 | 7858 | 7863 | |
| 31 | | 7868 | 7873 | 7878 | 7882 | 7887 | 7892 | 7897 | 7902 | 7907 | 7912 | |
| 32 | | 7916 | 7921 | 7926 | 7931 | 7935 | 7940 | 7945 | 7950 | 7954 | 7959 | |
| 33 | | 7964 | 7969 | 7973 | 7978 | 7983 | 7987 | 7992 | 7997 | 8001 | 8006 | |
| 34 | | 8010 | 8015 | 8020 | 8024 | 8029 | 8033 | 8038 | 8042 | 8047 | 8051 | 6 |
| 35 | | 8056 | 8060 | 8065 | 8069 | 8074 | 8078 | 8082 | 8087 | 8091 | 8096 | 1 0.6 |
| 36 | | 8100 | 8104 | 8109 | 8113 | 8118 | 8122 | 8126 | 8131 | 8135 | 8139 | 2 1.2 |
| 37 | | 8143 | 8148 | 8152 | 8156 | 8160 | 8165 | 8169 | 8173 | 8177 | 8182 | 3 1.8 |
| 38 | | 8186 | 8190 | 8194 | 8198 | 8202 | 8207 | 8211 | 8215 | 8219 | 8223 | 4 2.4 |
| 39 | | 8227 | 8231 | 8235 | 8239 | 8243 | 8247 | 8252 | 8256 | 8260 | 8264 | 5 3.0 |
| 2.40 | 9.99 | 8268 | 8272 | 8276 | 8280 | 8284 | 8287 | 8291 | 8295 | 8299 | 8303 | 6 3.6 |
| 41 | | 8307 | 8311 | 8315 | 8319 | 8323 | 8327 | 8330 | 8334 | 8338 | 8342 | 7 4.2 |
| 42 | | 8346 | 8350 | 8353 | 8357 | 8361 | 8365 | 8368 | 8372 | 8376 | 8380 | 8 4.8 |
| 43 | | 8383 | 8387 | 8391 | 8395 | 8398 | 8402 | 8406 | 8409 | 8413 | 8417 | 9 5.4 |
| 44 | | 8420 | 8424 | 8428 | 8431 | 8435 | 8438 | 8442 | 8446 | 8449 | 8453 | |
| 45 | | 8456 | 8460 | 8463 | 8467 | 8471 | 8474 | 8478 | 8481 | 8485 | 8488 | 5 |
| 46 | | 8492 | 8495 | 8498 | 8502 | 8505 | 8509 | 8512 | 8516 | 8519 | 8523 | 1 0.5 |
| 47 | | 8526 | 8529 | 8533 | 8536 | 8539 | 8543 | 8546 | 8550 | 8553 | 8556 | 2 1.0 |
| 48 | | 8560 | 8563 | 8566 | 8569 | 8573 | 8576 | 8579 | 8583 | 8586 | 8589 | 3 1.5 |
| 49 | | 8592 | 8596 | 8599 | 8602 | 8605 | 8609 | 8612 | 8615 | 8618 | 8621 | 4 2.0 |
| 2.50 | 9.99 | 8624 | 8628 | 8631 | 8634 | 8637 | 8640 | 8643 | 8646 | 8650 | 8653 | 5 2.5 |
| 51 | | 8656 | 8659 | 8663 | 8665 | 8668 | 8671 | 8674 | 8677 | 8680 | 8683 | 6 3.0 |
| 52 | | 8686 | 8689 | 8692 | 8696 | 8699 | 8702 | 8705 | 8708 | 8710 | 8713 | 7 3.5 |
| 53 | | 8716 | 8719 | 8722 | 8725 | 8728 | 8731 | 8734 | 8737 | 8740 | 8743 | 8 4.0 |
| 54 | | 8746 | 8749 | 8751 | 8754 | 8757 | 8760 | 8763 | 8766 | 8769 | 8771 | 9 4.5 |
| 55 | | 8774 | 8777 | 8780 | 8783 | 8786 | 8788 | 8791 | 8794 | 8797 | 8799 | |
| 56 | | 8802 | 8805 | 8808 | 8810 | 8813 | 8816 | 8819 | 8821 | 8824 | 8827 | |
| 57 | | 8830 | 8832 | 8835 | 8838 | 8840 | 8843 | 8846 | 8848 | 8851 | 8854 | 4 |
| 58 | | 8856 | 8859 | 8861 | 8864 | 8867 | 8869 | 8872 | 8874 | 8877 | 8880 | 1 0.4 |
| 59 | | 8882 | 8885 | 8887 | 8890 | 8893 | 8895 | 8898 | 8900 | 8903 | 8905 | 2 0.8 |
| 2.60 | 9.99 | 8908 | 8910 | 8913 | 8915 | 8918 | 8920 | 8923 | 8925 | 8928 | 8930 | 3 1.2 |
| 61 | | 8933 | 8935 | 8938 | 8940 | 8942 | 8945 | 8947 | 8950 | 8952 | 8955 | 4 1.6 |
| 62 | | 8957 | 8959 | 8962 | 8964 | 8967 | 8969 | 8971 | 8974 | 8976 | 8978 | 5 2.0 |
| 63 | | 8981 | 8983 | 8985 | 8988 | 8990 | 8992 | 8995 | 8997 | 8999 | 9002 | 6 2.4 |
| 64 | | 9004 | 9006 | 9009 | 9011 | 9013 | 9015 | 9018 | 9020 | 9022 | 9024 | 7 2.8 |
| 65 | | 9027 | 9029 | 9031 | 9033 | 9036 | 9038 | 9040 | 9042 | 9044 | 9047 | 8 3.2 |
| 66 | | 9049 | 9051 | 9053 | 9055 | 9058 | 9060 | 9062 | 9064 | 9066 | 9068 | 9 3.6 |
| 67 | | 9071 | 9073 | 9075 | 9077 | 9079 | 9081 | 9083 | 9085 | 9087 | 9090 | |
| 68 | | 9092 | 9094 | 9096 | 9098 | 9100 | 9102 | 9104 | 9106 | 9108 | 9110 | |
| 69 | | 9112 | 9114 | 9116 | 9118 | 9121 | 9123 | 9125 | 9127 | 9129 | 9131 | 3 |
| 2.70 | 9.99 | 9133 | 9135 | 9137 | 9139 | 9141 | 9143 | 9145 | 9146 | 9148 | 9150 | 1 0.3 |
| 71 | | 9152 | 9154 | 9156 | 9158 | 9160 | 9162 | 9164 | 9166 | 9168 | 9170 | 2 0.6 |
| 72 | | 9172 | 9174 | 9175 | 9177 | 9179 | 9181 | 9183 | 9185 | 9187 | 9189 | 3 0.9 |
| 73 | | 9191 | 9192 | 9194 | 9196 | 9198 | 9200 | 9202 | 9204 | 9205 | 9207 | 4 1.2 |
| 74 | | 9209 | 9211 | 9213 | 9214 | 9216 | 9218 | 9220 | 9222 | 9223 | 9225 | 5 1.5 |
| 75 | | 9227 | 9229 | 9231 | 9232 | 9234 | 9236 | 9238 | 9239 | 9241 | 9243 | 6 1.8 |
| 76 | | 9245 | 9246 | 9248 | 9250 | 9252 | 9253 | 9255 | 9257 | 9258 | 9260 | 7 2.1 |
| 77 | | 9262 | 9264 | 9265 | 9267 | 9269 | 9270 | 9272 | 9274 | 9275 | 9277 | 8 2.4 |
| 78 | | 9279 | 9280 | 9282 | 9284 | 9285 | 9287 | 9289 | 9290 | 9292 | 9293 | 9 2.7 |
| 79 | | 9295 | 9297 | 9298 | 9300 | 9302 | 9303 | 9305 | 9306 | 9308 | 9310 | |
| 2.80 | 9.99 | 9311 | 9313 | 9314 | 9316 | 9317 | 9319 | 9321 | 9322 | 9324 | 9325 | |
| | B | C 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

SUBTRACTIONS-LOGARITHMEN.

| B | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PP. |
|-----|------|------|------|------|------|------|------|------|------|------|------|---------------------------|
| 2.8 | 9.99 | 9311 | 9327 | 9342 | 9357 | 9372 | 9386 | 9400 | 9414 | 9427 | 9440 | |
| 2.9 | | 9453 | 9465 | 9478 | 9489 | 9501 | 9512 | 9524 | 9534 | 9545 | 9555 | |
| 3.0 | 9.99 | 9565 | 9575 | 9585 | 9595 | 9604 | 9613 | 9622 | 9630 | 9639 | 9647 | |
| 3.1 | | 9655 | 9663 | 9670 | 9678 | 9685 | 9692 | 9699 | 9706 | 9713 | 9720 | 16 15 14 1 1.6 1.5 1.4 |
| 3.2 | | 9726 | 9732 | 9738 | 9744 | 9750 | 9756 | 9761 | 9767 | 9772 | 9777 | 2 3.2 3.0 2.8 |
| 3.3 | | 9782 | 9787 | 9792 | 9797 | 9801 | 9806 | 9810 | 9815 | 9819 | 9823 | 3 4.8 4.5 4.2 |
| 3.4 | | 9827 | 9831 | 9835 | 9839 | 9842 | 9846 | 9849 | 9853 | 9856 | 9859 | 4 6.4 6.0 5.6 |
| 3.5 | | 9863 | 9866 | 9869 | 9872 | 9875 | 9878 | 9880 | 9883 | 9886 | 9888 | 5 8.0 7.5 7.0 |
| 3.6 | | 9891 | 9893 | 9896 | 9898 | 9900 | 9903 | 9905 | 9907 | 9909 | 9911 | 6 9.6 9.0 8.4 |
| 3.7 | | 9913 | 9915 | 9917 | 9919 | 9921 | 9923 | 9925 | 9926 | 9928 | 9930 | 7 11.2 10.5 9.8 |
| 3.8 | | 9931 | 9933 | 9934 | 9936 | 9937 | 9939 | 9940 | 9941 | 9943 | 9944 | 8 12.8 12.0 11.2 |
| 3.9 | | 9945 | 9947 | 9948 | 9949 | 9950 | 9951 | 9952 | 9953 | 9955 | 9956 | 9 14.4 13.5 12.6 |
| 4.0 | 9.99 | 9957 | 9958 | 9959 | 9959 | 9960 | 9961 | 9962 | 9963 | 9964 | 9965 | |
| 4.1 | | 9966 | 9966 | 9967 | 9968 | 9969 | 9969 | 9970 | 9971 | 9971 | 9972 | 13 12 11 1 1.3 1.2 1.1 |
| 4.2 | | 9973 | 9973 | 9974 | 9974 | 9975 | 9976 | 9976 | 9977 | 9977 | 9978 | 2 2.6 2.4 2.2 |
| 4.3 | | 9978 | 9979 | 9979 | 9980 | 9980 | 9981 | 9981 | 9981 | 9982 | 9982 | 3 3.9 3.6 3.3 |
| 4.4 | | 9983 | 9983 | 9983 | 9984 | 9984 | 9985 | 9985 | 9985 | 9986 | 9986 | 4 5.2 4.8 4.4 |
| 4.5 | | 9986 | 9987 | 9987 | 9987 | 9987 | 9988 | 9988 | 9988 | 9989 | 9989 | 5 6.5 6.0 5.5 |
| 4.6 | | 9989 | 9989 | 9990 | 9990 | 9990 | 9990 | 9990 | 9991 | 9991 | 9991 | 6 7.8 7.2 6.6 |
| 4.7 | | 9991 | 9992 | 9992 | 9992 | 9992 | 9992 | 9992 | 9993 | 9993 | 9993 | 7 9.1 8.4 7.7 |
| 4.8 | | 9993 | 9993 | 9993 | 9994 | 9994 | 9994 | 9994 | 9994 | 9994 | 9994 | 8 10.4 9.6 8.8 |
| 4.9 | | 9995 | 9995 | 9995 | 9995 | 9995 | 9995 | 9995 | 9995 | 9995 | 9996 | 9 11.7 10.8 9.9 |
| 5.0 | 9.99 | 9996 | 9996 | 9996 | 9996 | 9996 | 9996 | 9996 | 9996 | 9996 | 9996 | |
| 5 | | 9999 | 9997 | 9997 | 9998 | 9998 | 9999 | 9999 | 9999 | 9999 | 9999 | 9 8 7 1 0.9 0.8 0.7 |
| 6 | 0.00 | 0000 | | | | | | | | | | 2 1.8 1.6 1.4 |

$$\log a - \log b = B$$

$$\log (a - b) = \log a + C$$

| DEGREES. | | | | | | | | | | | | MINUTES. | SECONDS. |
|----------|---|-----|---|------|---|------|--|------|--|------|--|----------|--|
| 0° | ^h ₀ ^m ₀ | 60° | ^h ₄ ^m ₀ | 120° | ^h ₈ ^m ₀ | 180° | ^h ₁₂ ^m ₀ | 240° | ^h ₁₆ ^m ₀ | 300° | ^h ₂₀ ^m ₀ | 0' | ^m ₀ ^s ₀₀ |
| 1 | 0 4 | 61 | 4 4 | 121 | 8 4 | 181 | 12 4 | 241 | 16 4 | 301 | 20 4 | 1 0 4 | 1 0 07 |
| 2 | 0 8 | 62 | 4 8 | 122 | 8 8 | 182 | 12 8 | 242 | 16 8 | 302 | 20 8 | 2 0 8 | 2 0 13 |
| 3 | 0 12 | 63 | 4 12 | 123 | 8 12 | 183 | 12 12 | 243 | 16 12 | 303 | 20 12 | 3 0 12 | 3 0 20 |
| 4 | 0 16 | 64 | 4 16 | 124 | 8 16 | 184 | 12 16 | 244 | 16 16 | 304 | 20 16 | 4 0 16 | 4 0 27 |
| 5 | 0 20 | 65 | 4 20 | 125 | 8 20 | 185 | 12 20 | 245 | 16 20 | 305 | 20 20 | 5 0 20 | 5 0 33 |
| 6 | 0 24 | 66 | 4 24 | 126 | 8 24 | 186 | 12 24 | 246 | 16 24 | 306 | 20 24 | 6 0 24 | 6 0 40 |
| 7 | 0 28 | 67 | 4 28 | 127 | 8 28 | 187 | 12 28 | 247 | 16 28 | 307 | 20 28 | 7 0 28 | 7 0 47 |
| 8 | 0 32 | 68 | 4 32 | 128 | 8 32 | 188 | 12 32 | 248 | 16 32 | 308 | 20 32 | 8 0 32 | 8 0 53 |
| 9 | 0 36 | 69 | 4 36 | 129 | 8 36 | 189 | 12 36 | 249 | 16 36 | 309 | 20 36 | 9 0 36 | 9 0 60 |
| 10 | 0 40 | 70 | 4 40 | 130 | 8 40 | 190 | 12 40 | 250 | 16 40 | 310 | 20 40 | 10 0 40 | 10 0 67 |
| 11 | 0 44 | 71 | 4 44 | 131 | 8 44 | 191 | 12 44 | 251 | 16 44 | 311 | 20 44 | 11 0 44 | 11 0 73 |
| 12 | 0 48 | 72 | 4 48 | 132 | 8 48 | 192 | 12 48 | 252 | 16 48 | 312 | 20 48 | 12 0 48 | 12 0 80 |
| 13 | 0 52 | 73 | 4 52 | 133 | 8 52 | 193 | 12 52 | 253 | 16 52 | 313 | 20 52 | 13 0 52 | 13 0 87 |
| 14 | 0 56 | 74 | 4 56 | 134 | 8 56 | 194 | 12 56 | 254 | 16 56 | 314 | 20 56 | 14 0 56 | 14 0 93 |
| 15 | 1 0 | 75 | 5 0 | 135 | 9 0 | 195 | 13 0 | 255 | 17 0 | 315 | 21 0 | 15 1 0 | 15 1 00 |
| 16 | 1 4 | 76 | 5 4 | 136 | 9 4 | 196 | 13 4 | 256 | 17 4 | 316 | 21 4 | 16 1 4 | 16 1 07 |
| 17 | 1 8 | 77 | 5 8 | 137 | 9 8 | 197 | 13 8 | 257 | 17 8 | 317 | 21 8 | 17 1 8 | 17 1 13 |
| 18 | 1 12 | 78 | 5 12 | 138 | 9 12 | 198 | 13 12 | 258 | 17 12 | 318 | 21 12 | 18 1 12 | 18 1 20 |
| 19 | 1 16 | 79 | 5 16 | 139 | 9 16 | 199 | 13 16 | 259 | 17 16 | 319 | 21 16 | 19 1 16 | 19 1 27 |
| 20 | 1 20 | 80 | 5 20 | 140 | 9 20 | 200 | 13 20 | 260 | 17 20 | 320 | 21 20 | 20 1 20 | 20 1 33 |
| 21 | 1 24 | 81 | 5 24 | 141 | 9 24 | 201 | 13 24 | 261 | 17 24 | 321 | 21 24 | 21 1 24 | 21 1 40 |
| 22 | 1 28 | 82 | 5 28 | 142 | 9 28 | 202 | 13 28 | 262 | 17 28 | 322 | 21 28 | 22 1 28 | 22 1 47 |
| 23 | 1 32 | 83 | 5 32 | 143 | 9 32 | 203 | 13 32 | 263 | 17 32 | 323 | 21 32 | 23 1 32 | 23 1 53 |
| 24 | 1 36 | 84 | 5 36 | 144 | 9 36 | 204 | 13 36 | 264 | 17 36 | 324 | 21 36 | 24 1 36 | 24 1 60 |
| 25 | 1 40 | 85 | 5 40 | 145 | 9 40 | 205 | 13 40 | 265 | 17 40 | 325 | 21 40 | 25 1 40 | 25 1 67 |
| 26 | 1 44 | 86 | 5 44 | 146 | 9 44 | 206 | 13 44 | 266 | 17 44 | 326 | 21 44 | 26 1 44 | 26 1 73 |
| 27 | 1 48 | 87 | 5 48 | 147 | 9 48 | 207 | 13 48 | 267 | 17 48 | 327 | 21 48 | 27 1 48 | 27 1 80 |
| 28 | 1 52 | 88 | 5 52 | 148 | 9 52 | 208 | 13 52 | 268 | 17 52 | 328 | 21 52 | 28 1 52 | 28 1 87 |
| 29 | 1 56 | 89 | 5 56 | 149 | 9 56 | 209 | 13 56 | 269 | 17 56 | 329 | 21 56 | 29 1 56 | 29 1 93 |
| 30 | 2 0 | 90 | 6 0 | 150 | 10 0 | 210 | 14 0 | 270 | 18 0 | 330 | 22 0 | 30 2 0 | 30 2 00 |
| 31 | 2 4 | 91 | 6 4 | 151 | 10 4 | 211 | 14 4 | 271 | 18 4 | 331 | 22 4 | 31 2 4 | 31 2 07 |
| 32 | 2 8 | 92 | 6 8 | 152 | 10 8 | 212 | 14 8 | 272 | 18 8 | 332 | 22 8 | 32 2 8 | 32 2 13 |
| 33 | 2 12 | 93 | 6 12 | 153 | 10 12 | 213 | 14 12 | 273 | 18 12 | 333 | 22 12 | 33 2 12 | 33 2 20 |
| 34 | 2 16 | 94 | 6 16 | 154 | 10 16 | 214 | 14 16 | 274 | 18 16 | 334 | 22 16 | 34 2 16 | 34 2 27 |
| 35 | 2 20 | 95 | 6 20 | 155 | 10 20 | 215 | 14 20 | 275 | 18 20 | 335 | 22 20 | 35 2 20 | 35 2 33 |
| 36 | 2 24 | 96 | 6 24 | 156 | 10 24 | 216 | 14 24 | 276 | 18 24 | 336 | 22 24 | 36 2 24 | 36 2 40 |
| 37 | 2 28 | 97 | 6 28 | 157 | 10 28 | 217 | 14 28 | 277 | 18 28 | 337 | 22 28 | 37 2 28 | 37 2 47 |
| 38 | 2 32 | 98 | 6 32 | 158 | 10 32 | 218 | 14 32 | 278 | 18 32 | 338 | 22 32 | 38 2 32 | 38 2 53 |
| 39 | 2 36 | 99 | 6 36 | 159 | 10 36 | 219 | 14 36 | 279 | 18 36 | 339 | 22 36 | 39 2 36 | 39 2 60 |
| 40 | 2 40 | 100 | 6 40 | 160 | 10 40 | 220 | 14 40 | 280 | 18 40 | 340 | 22 40 | 40 2 40 | 40 2 67 |
| 41 | 2 44 | 101 | 6 44 | 161 | 10 44 | 221 | 14 44 | 281 | 18 44 | 341 | 22 44 | 41 2 44 | 41 2 73 |
| 42 | 2 48 | 102 | 6 48 | 162 | 10 48 | 222 | 14 48 | 282 | 18 48 | 342 | 22 48 | 42 2 48 | 42 2 80 |
| 43 | 2 52 | 103 | 6 52 | 163 | 10 52 | 223 | 14 52 | 283 | 18 52 | 343 | 22 52 | 43 2 52 | 43 2 87 |
| 44 | 2 56 | 104 | 6 56 | 164 | 10 56 | 224 | 14 56 | 284 | 18 56 | 344 | 22 56 | 44 2 56 | 44 2 93 |
| 45 | 3 0 | 105 | 7 0 | 165 | 11 0 | 225 | 15 0 | 285 | 19 0 | 345 | 23 0 | 45 3 0 | 45 3 00 |
| 46 | 3 4 | 106 | 7 4 | 166 | 11 4 | 226 | 15 4 | 286 | 19 4 | 346 | 23 4 | 46 3 4 | 46 3 07 |
| 47 | 3 8 | 107 | 7 8 | 167 | 11 8 | 227 | 15 8 | 287 | 19 8 | 347 | 23 8 | 47 3 8 | 47 3 13 |
| 48 | 3 12 | 108 | 7 12 | 168 | 11 12 | 228 | 15 12 | 288 | 19 12 | 348 | 23 12 | 48 3 12 | 48 3 20 |
| 49 | 3 16 | 109 | 7 16 | 169 | 11 16 | 229 | 15 16 | 289 | 19 16 | 349 | 23 16 | 49 3 16 | 49 3 27 |
| 50 | 3 20 | 110 | 7 20 | 170 | 11 20 | 230 | 15 20 | 290 | 19 20 | 350 | 23 20 | 50 3 20 | 50 3 33 |
| 51 | 3 24 | 111 | 7 24 | 171 | 11 24 | 231 | 15 24 | 291 | 19 24 | 351 | 23 24 | 51 3 24 | 51 3 40 |
| 52 | 3 28 | 112 | 7 28 | 172 | 11 28 | 232 | 15 28 | 292 | 19 28 | 352 | 23 28 | 52 3 28 | 52 3 47 |
| 53 | 3 32 | 113 | 7 32 | 173 | 11 32 | 233 | 15 32 | 293 | 19 32 | 353 | 23 32 | 53 3 32 | 53 3 53 |
| 54 | 3 36 | 114 | 7 36 | 174 | 11 36 | 234 | 15 36 | 294 | 19 36 | 354 | 23 36 | 54 3 36 | 54 3 60 |
| 55 | 3 40 | 115 | 7 40 | 175 | 11 40 | 235 | 15 40 | 295 | 19 40 | 355 | 23 40 | 55 3 40 | 55 3 67 |
| 56 | 3 44 | 116 | 7 44 | 176 | 11 44 | 236 | 15 44 | 296 | 19 44 | 356 | 23 44 | 56 3 44 | 56 3 73 |
| 57 | 3 48 | 117 | 7 48 | 177 | 11 48 | 237 | 15 48 | 297 | 19 48 | 357 | 23 48 | 57 3 48 | 57 3 80 |
| 58 | 3 52 | 118 | 7 52 | 178 | 11 52 | 238 | 15 52 | 298 | 19 52 | 358 | 23 52 | 58 3 52 | 58 3 87 |
| 59 | 3 56 | 119 | 7 56 | 179 | 11 56 | 239 | 15 56 | 299 | 19 56 | 359 | 23 56 | 59 3 56 | 59 3 93 |
| 60 | 4 0 | 120 | 8 0 | 180 | 12 0 | 240 | 16 0 | 300 | 20 0 | 360 | 24 0 | 60 4 0 | 60 4 00 |

CONSTANTS.

| | | Logarithm |
|--------------------------------------|--|----------------|
| Base of natural Logarithms: | $e = 2.71828183 \dots$ | 0.434294 48 |
| Modulus of common Logarithms: | $M = 0.43429448 \dots$ | 9.637784 31—10 |
| Unit of Circular measure in Degrees: | $57^\circ 29' 57.8''$ | 1.758122 63 |
| " " " " Minutes: | $3437'.7468 \dots$ | 3.536273.88 |
| " " " " Seconds: | $q = 206264''.806 \dots$ | 5.314425 13 |
| Four right angles in Degrees: | $360^\circ \dots$ | 2.556302 50 |
| " " " " Minutes: | $21600' \dots$ | 4.334453 75 |
| " " " " Seconds: | $1296000'' \dots$ | 6.112605 00 |
| Sine $1'$ | 0.017452406 | 8.241855 32—10 |
| " $1''$ | 0.00029088820 | 6.463726 11—10 |
| " $1'''$ | 0.0000048481368 | 4.685574 87—10 |
| π | $\pi = 3.14159265 \dots$ | 0.497149 87 |
| $\frac{1}{\pi}$ | $\frac{1}{\pi} = 0.31830989 \dots$ | 9.502850 13—10 |
| $\sqrt{\pi}$ | $\sqrt{\pi} = 1.77245385 \dots$ | 0.248574 94 |
| $\frac{\pi^2}{6}$ | $\frac{\pi^2}{6} = 9.86960440 \dots$ | 0.994299 75 |
| $\sqrt[3]{\frac{\pi^2}{6}}$ | $\sqrt[3]{\frac{\pi^2}{6}} = 0.80599598 \dots$ | 9.906332 87—10 |
| $\sqrt[4]{2}$ | $\sqrt[4]{2} = 1.41421356 \dots$ | 0.150515 00 |
| $\sqrt[4]{\frac{1}{2}}$ | $\sqrt[4]{\frac{1}{2}} = 0.70710678 \dots$ | 9.849485 00—10 |
| Probable error: | $r = 0.6744897$ error of m. sq. | 9.828975 3 —10 |
| " | $r = 0.8453476$ mean error | 9.927035 3 —10 |
| 1 Toise | 1.94903631 Metres | 0.289819 93 |
| 1 Paris Foot | 0.32483938 Metres | 9.511668 68—10 |
| 1 Paris Inch | 0.02706995 Metres | 8.432487 43—10 |
| 1 Paris Line | 0.00225583 Metres | 7.353306 19—10 |
| 1 Metre | 0.51307407 Toises | 9.710180 07—10 |
| 1 Metre | 3.07844444 Paris Feet | 0.488331 32 |
| 1 Centimetre | 0.36941333 Paris Inches | 9.567512 57—10 |
| 1 Centimetre | 4.43296000 Paris Lines | 0.646693 81 |
| 1 Millimetre | 0.44329600 Paris Lines | 9.646693 81—10 |
| 1 English Yard*) | 0.91439180 Metres | 9.961132 32—10 |
| 1 English Foot | 0.30479727 Metres | 9.484011 07—10 |
| 1 English Inch | 0.02539977 Metres | 8.404829 82—10 |
| 1 Metre | 1.09362311 English Yards | 0.038867 68 |
| 1 Metre | 3.28086933 English Feet | 0.515988 93 |
| 1 Centimetre | 0.39370432 English Inches | 9.595170 18—10 |
| 1 geographical Mile: | 7420.439 Metres | 3.870429 57 |
| 1 " " | 3807.235 Toises | 3.580609 64 |
| 1 " " | 22843.408 Paris Feet | 4.358760 89 |
| 1 " " | 8115.163 English Yards | 3.909297 25 |
| 1 " " | 24345.489 English Feet | 4.386418 50 |

*) See: Comparisons of the Standards of Length etc. by CLARKE, London 1886, page 280.
Some of the numbers elsewhere given for the conversion of yards into metres differ by a not inconsiderable amount from the above most recent and correct number.

Dimensions of the Earth according to Bessel.

| | | Logarithm |
|--|---|-----------|
| Semi-major axis: | $a = 3272077.14$ Toises 6.514823 53 6377397.15 Metres 6.804643 46 | |
| Semi-minor axis: | $b = 3261139.33$ Toises 6.513369 35 6356078.96 Metres 6.803189 28 | |
| Ellipticity: | $p = \frac{1}{299.1528} = 0.0033427731$ 7.524106 90—10 | |
| Excentricity: | $e = 0.08169683$ 8.912205 21—10 | |
| Useful quantities: | $m = \frac{a^2 - b^2}{a^2 + b^2} = 0.0033483601$ 7.524832 16—10 | |
| | $n = \frac{a - b}{a + b} = 0.0016741848$ 7.223803 39—10 | |
| | $\delta = \frac{a^2 - b^2}{b^2} = 0.0067192188$ 7.827318 78—10 | |
| | $\frac{b}{a} = \sqrt{1 - e^2} = 1 - p = 0.99665723$ 9.998545 82—10 | |
| | $\frac{b^2}{a^2} = 1 - e^2 = (1 - p)^2 = 0.99332563$ 9.997091 64—10 | |
| | $\frac{a - b}{a} = 1 - \sqrt{1 - e^2} = p = 0.0033427731$ 7.524106 90—10 | |
| | $\frac{a + b}{a} = 1 + \sqrt{1 - e^2} = 2 - p = 1.99665723$ 0.300303 51 | |
| | $\frac{a^2 - b^2}{a^2} = e^2 = (2 - p)p = 0.0066743721$ 7.824410 42—10 | |
| | $\frac{e^2}{1 - e^2} = 0.00671922$ 7.827318 78—10 | |
| | $\frac{e}{\sqrt{1 - e^2}} = 0.08197084$ 8.913659 39—10 | |
| | $\frac{e \sqrt{\frac{1}{1 - \frac{3}{4}e^2}}}{\sqrt{1 - \frac{3}{4}e^2}} = 0.07092928$ 8.850825 56—10 | |
| | $\frac{e^2}{\sqrt{1 - \frac{3}{4}e^2}} = 0.00668555$ 7.825136 90—10 | |
| Quadrant of a meridian: | 5131179.81 Toises 6.710217 23 10000855.76 Metres 7.000037 16 | |
| Radius of Sphere whose surface is equal to that of the Earth: | 3268430.4 Toises 6.514339 24 6370289.5 Metres 6.804159 17 | |
| Radius of Sphere whose volume is equal to that of the Earth: | 3268427.1 Toises 6.514338 81 6370283.2 Metres 6.804158 74 | |
| Geometrical mean of the radii of curvature in the meridian plane and perpendicular to it for latitude 45°: | 3272058.8 Toises 6.514821 10 6377361.4 Metres 6.804641 03 | |

Dimensions of the Earth according to Clarke (1880).

| | | |
|-------------------------|--|--------------|
| | | Logarithm |
| Semi-major axis: | $a = 6378249.2$ Metres | 6.804701 48 |
| Semi-minor axis: | $b = 6356515.0$ Metres | 6.803219 08 |
| Ellipticity: | $p = \frac{1}{293.465} = 0.00340756$ | 7.532444 —10 |
| Excentricity: | $e = 0.0824831$ | 8.916365 —10 |
| Quadrant of a meridian: | 10001869 Metres | 7.000081 |

Length of the Seconds-Pendulum in vacuo at the level of the sea in latitude φ :

| | | |
|-------------------|--|-----------------------|
| <i>Sabine</i> : | $0.9909893 + 0.0051341 \sin^2 \varphi$ | from 13 measurements. |
| " | $0.9912771 + 0.0051422 \sin^2 \varphi$ | " 25 " " |
| <i>Foster</i> : | $0.9910057 + 0.0051495 \sin^2 \varphi$ | " 15 " " |
| <i>Schmidt</i> : | $0.9909780 + 0.0051536 \sin^2 \varphi$ | " 47 " " |
| <i>Airy</i> : | $0.9910170 + 0.0050868 \sin^2 \varphi$ | " 49 " " |
| <i>Bowditch</i> : | $0.9910002 + 0.0051330 \sin^2 \varphi$ | " 52 " " |
| <i>Baily</i> : | $0.9910217 + 0.0050987 \sin^2 \varphi$ | " 79 " " |
| <i>Borenius</i> : | $0.9910250 + 0.0051160 \sin^2 \varphi$ | " 47 " " |
| <i>Pouillet</i> : | $0.9910256 + 0.0050719 \sin^2 \varphi$ | " 44 " " |
| <i>Fischer</i> : | $0.9910108 + 0.0051049 \sin^2 \varphi$ | " 73 " " |

Mean value, having regard to the weight of single determinations:

$$l = 0.99102 + 0.00510 \sin^2 \varphi.$$

Value of g at the level of the sea in latitude φ :

$$= 978.10 + 5.03 \sin^2 \varphi, \text{ in C. G. S. units.}$$

Astronomical Constants.

| | |
|---|-------------------------------------|
| General Precession according to <i>Bessel</i> : | $50''.2357 + 0''.000244 (t - 1850)$ |
| " " " " <i>Leverrier</i> : | $50.2357 + 0.000226 (t - 1850)$ |
| " " " " <i>Struve</i> : | $50.2524 + 0.000226 (t - 1850)$ |

| | |
|---|------------------------------------|
| Nutation according to <i>Lindenau</i> : | $8''.9771$ |
| " " " <i>Peters</i> : | $9''.2236 + 0''.000009 (t - 1850)$ |

| | |
|---|------------|
| Aberration according to <i>Delambre</i> : | $20''.255$ |
| " " " <i>Struve</i> : | 20.4451 |

| | |
|--|---|
| Inclination of the Ecliptic accord. to <i>Bessel</i> : | $23^\circ 27' 29''.60 - 0''.484 (t - 1850)$ |
| " " " " <i>Leverrier</i> : | $23 \ 27 \ 31.83 - 0.476 (t - 1850)$ |
| " " " " <i>Struve</i> : | $23 \ 27 \ 30.76 - 0.474 (t - 1850)$ |

Precession reduced to the Equator:

| | |
|----------------------------|--|
| <i>Bessel</i> : | $m = 46''.0591 + 0''.0003086 (t - 1850)$ |
| (Jul. Year) | $n = 20.0547 - 0.0000970 (t - 1850)$ |
| <i>Leverrier</i> : | $m = 46.0601 + 0.0002837 (t - 1850)$ |
| (Jul. Year) | $n = 20.0524 - 0.0000866 (t - 1850)$ |
| <i>Struve and Peters</i> : | $m = 46.0765 + 0.0002849 (t - 1850)$ |
| (trop. Year) | $n = 20.0564 - 0.0000863 (t - 1850)$ |

Special Values of the Precession-Constants according to Struve and Peters:

(The tropical year=unity.)

| Year. | <i>P.</i> | <i>m.</i> | <i>n.</i> | <i>π.</i> | <i>M.</i> | <i>ε.</i> |
|-------|-----------|-----------|-----------|-----------|--------------|----------------|
| 1800: | 50.2411 | 46.0623 | 20.0607 | 0.4776 | 172° 45' 32" | 23° 27' 54".45 |
| 1810: | 50.2434 | 46.0651 | 20.0598 | 0.4775 | 172 51 4 | 23 27 49.72 |
| 1820: | 50.2456 | 46.0680 | 20.0590 | 0.4775 | 172 56 37 | 23 27 44.98 |
| 1830: | 50.2479 | 46.0708 | 20.0581 | 0.4774 | 173 2 9 | 23 27 40.24 |
| 1840: | 50.2502 | 46.0737 | 20.0572 | 0.4773 | 173 7 41 | 23 27 35.50 |
| 1850: | 50.2524 | 46.0765 | 20.0564 | 0.4773 | 173 13 13 | 23 27 30.76 |
| 1860: | 50.2547 | 46.0794 | 20.0555 | 0.4772 | 173 18 46 | 23 27 26.02 |
| 1870: | 50.2570 | 46.0822 | 20.0546 | 0.4771 | 173 24 18 | 23 27 21.28 |
| 1880: | 50.2592 | 46.0851 | 20.0538 | 0.4770 | 173 29 50 | 23 27 16.54 |
| 1890: | 50.2615 | 46.0879 | 20.0530 | 0.4770 | 173 35 23 | 23 27 11.80 |
| 1900: | 50.2638 | 46.0908 | 20.0521 | 0.4769 | 173 40 55 | 23 27 7.06 |

| Year. | $\frac{1}{5} m.$ | $\log \frac{1}{5} n.$ | $\log n.$ | $\log \tan \varepsilon.$ |
|-------|------------------|-----------------------|-----------|--------------------------|
| 1800: | 3.07082 | 0.126255 | 1.302346 | 9.637579 |
| 1810: | 3.07101 | 0.126236 | 1.302327 | 9.637551 |
| 1820: | 3.07120 | 0.126218 | 1.302309 | 9.637524 |
| 1830: | 3.07139 | 0.126199 | 1.302290 | 9.637496 |
| 1840: | 3.07158 | 0.126180 | 1.302271 | 9.637469 |
| 1850: | 3.07177 | 0.126162 | 1.302253 | 9.637442 |
| 1860: | 3.07196 | 0.126143 | 1.302234 | 9.637415 |
| 1870: | 3.07215 | 0.126124 | 1.302215 | 9.637387 |
| 1880: | 3.07234 | 0.126106 | 1.302197 | 9.637360 |
| 1890: | 3.07253 | 0.126087 | 1.302178 | 9.637332 |
| 1900: | 3.07272 | 0.126068 | 1.302159 | 9.637305 |

Logarithm

| | | | | |
|---|---------------------------|-----------|----------|--------|
| Length of the Julian Year: | 365.25 | Days..... | 2.562590 | 2 |
| " " " sidereal " | 365.25636 | " | 2.562597 | 8 |
| " " " tropical " | 365.24220 | " | 2.562580 | 9 |
| Mean solar day in sidereal days: | 1.00273791 | ..... | 0.001187 | 4 |
| Sidereal day in mean solar days: | 0.99726957 | ..... | 9.998812 | 6 — 10 |
| Mean distance of the earth from the sun | | | | |
| taking solar Parallax as 8".75: | 150 335 153 ^{km} | .. | 8.177060 | 5 |
| " " " " " 8.80: | 149 480 976 | .. | 8.174585 | 9 |
| Time "taken" by light "to travel from the Sun | | | | |
| to the earth (according to Struve): | 497 ^s .78 | ... | 2.697037 | 4 |

Masses of the Planets (Mass of Sun = 1).

| | | | | |
|---------------------------------|----------------------|-------|----------|------|
| Mercury according to von Asten: | $\frac{1}{7636440}$ | ..... | 3.117109 | — 10 |
| Venus " " Leverrier: | $\frac{1}{412150}$ | ..... | 4.384945 | — 10 |
| Earth " " Leverrier: | $\frac{1}{324439}$ | ..... | 4.488867 | — 10 |
| Mars " " Hall: | $\frac{1}{3093500}$ | ..... | 3.509550 | — 10 |
| Jupiter " " Bessel-Schur: | $\frac{1}{1047.568}$ | ..... | 6.979818 | — 10 |
| Saturn " " Bessel: | $\frac{1}{3501.6}$ | ..... | 6.455733 | — 10 |
| Uranus " " Newcomb: | $\frac{1}{22600}$ | ..... | 5.645892 | — 10 |
| Neptune " " Newcomb: | $\frac{1}{19380}$ | ..... | 5.712646 | — 10 |
| Moon (Mass of Earth = 1): | $\frac{1}{81}$ | ..... | 8.091515 | — 10 |

APPENDIX.

TABLE

OF

NATURAL FUNCTIONS AND CIRCULAR MEASURES
OF ANGLES

TO EACH MINUTE OF ARC.

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|----------|--------|----------|---------|---------|----|---------|
| .00000 | 0 | .00000 | Infinite | .00000 | Infinite | 1.00000 | 1.00000 | 60 | 1.57080 |
| .00029 | 1 | .00029 | 3437.75 | .00029 | 3437.75 | 1.00000 | 1.00000 | 59 | 1.57051 |
| .00058 | 2 | .00058 | 1718.87 | .00058 | 1718.87 | 1.00000 | 1.00000 | 58 | 1.57021 |
| .00087 | 3 | .00087 | 1145.92 | .00087 | 1145.92 | 1.00000 | 1.00000 | 57 | 1.56992 |
| .00116 | 4 | .00116 | 859.437 | .00116 | 859.436 | 1.00000 | 1.00000 | 56 | 1.56963 |
| .00145 | 5 | .00145 | 687.550 | .00145 | 687.549 | 1.00000 | 1.00000 | 55 | 1.56934 |
| .00175 | 6 | .00175 | 572.958 | .00175 | 572.957 | 1.00000 | 1.00000 | 54 | 1.56905 |
| .00204 | 7 | .00204 | 491.107 | .00204 | 491.106 | 1.00000 | 1.00000 | 53 | 1.56876 |
| .00233 | 8 | .00233 | 429.719 | .00233 | 429.718 | 1.00000 | 1.00000 | 52 | 1.56847 |
| .00262 | 9 | .00262 | 381.972 | .00262 | 381.971 | 1.00000 | 1.00000 | 51 | 1.56818 |
| .00291 | 10 | .00291 | 343.775 | .00291 | 343.774 | 1.00000 | 1.00000 | 50 | 1.56789 |
| .00320 | 11 | .00320 | 312.523 | .00320 | 312.521 | 1.00001 | .99999 | 49 | 1.56760 |
| .00349 | 12 | .00349 | 286.479 | .00349 | 286.478 | 1.00001 | .99999 | 48 | 1.56731 |
| .00378 | 13 | .00378 | 264.443 | .00378 | 264.441 | 1.00001 | .99999 | 47 | 1.56701 |
| .00407 | 14 | .00407 | 245.554 | .00407 | 245.552 | 1.00001 | .99999 | 46 | 1.56672 |
| .00436 | 15 | .00436 | 229.184 | .00436 | 229.182 | 1.00001 | .99999 | 45 | 1.56643 |
| .00465 | 16 | .00465 | 214.860 | .00465 | 214.858 | 1.00001 | .99999 | 44 | 1.56614 |
| .00495 | 17 | .00495 | 202.221 | .00495 | 202.219 | 1.00001 | .99999 | 43 | 1.56585 |
| .00524 | 18 | .00524 | 190.987 | .00524 | 190.984 | 1.00001 | .99999 | 42 | 1.56556 |
| .00553 | 19 | .00553 | 180.935 | .00553 | 180.932 | 1.00002 | .99998 | 41 | 1.56527 |
| .00582 | 20 | .00582 | 171.888 | .00582 | 171.885 | 1.00002 | .99998 | 40 | 1.56498 |
| .00611 | 21 | .00611 | 163.703 | .00611 | 163.700 | 1.00002 | .99998 | 39 | 1.56469 |
| .00640 | 22 | .00640 | 156.262 | .00640 | 156.259 | 1.00002 | .99998 | 38 | 1.56440 |
| .00669 | 23 | .00669 | 149.468 | .00669 | 149.465 | 1.00002 | .99998 | 37 | 1.56411 |
| .00698 | 24 | .00698 | 143.241 | .00698 | 143.237 | 1.00002 | .99998 | 36 | 1.56382 |
| .00727 | 25 | .00727 | 137.511 | .00727 | 137.507 | 1.00003 | .99997 | 35 | 1.56352 |
| .00756 | 26 | .00756 | 132.222 | .00756 | 132.219 | 1.00003 | .99997 | 34 | 1.56323 |
| .00785 | 27 | .00785 | 127.325 | .00785 | 127.321 | 1.00003 | .99997 | 33 | 1.56294 |
| .00814 | 28 | .00814 | 122.778 | .00814 | 122.774 | 1.00003 | .99997 | 32 | 1.56265 |
| .00844 | 29 | .00844 | 118.544 | .00844 | 118.540 | 1.00004 | .99996 | 31 | 1.56236 |
| .00873 | 30 | .00873 | 114.593 | .00873 | 114.589 | 1.00004 | .99996 | 30 | 1.56207 |
| .00902 | 31 | .00902 | 110.897 | .00902 | 110.892 | 1.00004 | .99996 | 29 | 1.56178 |
| .00931 | 32 | .00931 | 107.431 | .00931 | 107.426 | 1.00004 | .99996 | 28 | 1.56149 |
| .00960 | 33 | .00960 | 104.176 | .00960 | 104.171 | 1.00005 | .99995 | 27 | 1.56120 |
| .00989 | 34 | .00989 | 101.112 | .00989 | 101.107 | 1.00005 | .99995 | 26 | 1.56091 |
| .01018 | 35 | .01018 | 98.2230 | .01018 | 98.2179 | 1.00005 | .99995 | 25 | 1.56062 |
| .01047 | 36 | .01047 | 95.4947 | .01047 | 95.4895 | 1.00005 | .99995 | 24 | 1.56032 |
| .01076 | 37 | .01076 | 92.9139 | .01076 | 92.9085 | 1.00006 | .99994 | 23 | 1.56003 |
| .01105 | 38 | .01105 | 90.4689 | .01105 | 90.4633 | 1.00006 | .99994 | 22 | 1.55974 |
| .01134 | 39 | .01134 | 88.1492 | .01134 | 88.1436 | 1.00006 | .99994 | 21 | 1.55945 |
| .01164 | 40 | .01164 | 85.9456 | .01164 | 85.9398 | 1.00007 | .99993 | 20 | 1.55916 |
| .01193 | 41 | .01193 | 83.8495 | .01193 | 83.8435 | 1.00007 | .99993 | 19 | 1.55887 |
| .01222 | 42 | .01222 | 81.8531 | .01222 | 81.8470 | 1.00007 | .99993 | 18 | 1.55858 |
| .01251 | 43 | .01251 | 79.9497 | .01251 | 79.9434 | 1.00008 | .99992 | 17 | 1.55829 |
| .01280 | 44 | .01280 | 78.1327 | .01280 | 78.1263 | 1.00008 | .99992 | 16 | 1.55800 |
| .01309 | 45 | .01309 | 76.3966 | .01309 | 76.3900 | 1.00009 | .99991 | 15 | 1.55771 |
| .01338 | 46 | .01338 | 74.7359 | .01338 | 74.7292 | 1.00009 | .99991 | 14 | 1.55742 |
| .01367 | 47 | .01367 | 73.1458 | .01367 | 73.1390 | 1.00009 | .99991 | 13 | 1.55712 |
| .01396 | 48 | .01396 | 71.6221 | .01396 | 71.6151 | 1.00010 | .99990 | 12 | 1.55683 |
| .01425 | 49 | .01425 | 70.1605 | .01425 | 70.1533 | 1.00010 | .99990 | 11 | 1.55654 |
| .01454 | 50 | .01454 | 68.7574 | .01454 | 68.7501 | 1.00011 | .99989 | 10 | 1.55625 |
| .01484 | 51 | .01483 | 67.4093 | .01484 | 67.4019 | 1.00011 | .99989 | 9 | 1.55596 |
| .01513 | 52 | .01513 | 66.1130 | .01513 | 66.1055 | 1.00011 | .99989 | 8 | 1.55567 |
| .01542 | 53 | .01542 | 64.8657 | .01542 | 64.8580 | 1.00012 | .99988 | 7 | 1.55538 |
| .01571 | 54 | .01571 | 63.6646 | .01571 | 63.6567 | 1.00012 | .99988 | 6 | 1.55509 |
| .01600 | 55 | .01600 | 62.5072 | .01600 | 62.4992 | 1.00013 | .99987 | 5 | 1.55480 |
| .01629 | 56 | .01629 | 61.3911 | .01629 | 61.3829 | 1.00013 | .99987 | 4 | 1.55451 |
| .01658 | 57 | .01658 | 60.3141 | .01658 | 60.3058 | 1.00014 | .99986 | 3 | 1.55422 |
| .01687 | 58 | .01687 | 59.2743 | .01687 | 59.2659 | 1.00014 | .99986 | 2 | 1.55392 |
| .01716 | 59 | .01716 | 58.2748 | .01716 | 58.2652 | 1.00015 | .99985 | 1 | 1.55363 |
| .01745 | 60 | .01745 | 57.3057 | .01745 | 57.2957 | 1.00015 | .99985 | 0 | 1.55334 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|-------|----|--------|---------|--------|---------|---------|--------|----|---------|
| 01745 | 0 | .01745 | 57.2987 | .01746 | 57.2900 | 1.00015 | .99985 | 60 | 1.55334 |
| 01774 | 1 | .01774 | 56.3595 | .01775 | 56.3500 | 1.00016 | .99984 | 59 | 1.55305 |
| 01804 | 2 | .01803 | 55.4505 | .01804 | 55.4415 | 1.00016 | .99984 | 58 | 1.55276 |
| 01833 | 3 | .01832 | 54.5705 | .01833 | 54.5613 | 1.00017 | .99983 | 57 | 1.55247 |
| 01862 | 4 | .01862 | 53.7179 | .01862 | 53.7086 | 1.00017 | .99983 | 56 | 1.55218 |
| 01891 | 5 | .01891 | 52.8916 | .01891 | 52.8821 | 1.00018 | .99982 | 55 | 1.55189 |
| 01920 | 6 | .01920 | 52.0903 | .01920 | 52.0807 | 1.00018 | .99982 | 54 | 1.55160 |
| 01949 | 7 | .01949 | 51.3129 | .01949 | 51.3032 | 1.00019 | .99981 | 53 | 1.55131 |
| 01978 | 8 | .01978 | 50.5584 | .01978 | 50.5485 | 1.00020 | .99980 | 52 | 1.55102 |
| 02007 | 9 | .02007 | 49.8258 | .02007 | 49.8157 | 1.00020 | .99980 | 51 | 1.55073 |
| 02036 | 10 | .02036 | 49.1141 | .02036 | 49.1039 | 1.00021 | .99979 | 50 | 1.55043 |
| 02065 | 11 | .02065 | 48.4224 | .02066 | 48.4121 | 1.00021 | .99979 | 49 | 1.55014 |
| 02094 | 12 | .02094 | 47.7500 | .02095 | 47.7395 | 1.00022 | .99978 | 48 | 1.54985 |
| 02123 | 13 | .02123 | 47.0960 | .02124 | 47.0853 | 1.00023 | .99977 | 47 | 1.54956 |
| 02153 | 14 | .02152 | 46.4596 | .02153 | 46.4489 | 1.00023 | .99977 | 46 | 1.54927 |
| 02182 | 15 | .02181 | 45.8403 | .02182 | 45.8294 | 1.00024 | .99976 | 45 | 1.54898 |
| 02211 | 16 | .02211 | 45.2372 | .02211 | 45.2261 | 1.00024 | .99976 | 44 | 1.54869 |
| 02240 | 17 | .02240 | 44.6498 | .02240 | 44.6386 | 1.00025 | .99975 | 43 | 1.54840 |
| 02269 | 18 | .02269 | 44.0775 | .02269 | 44.0661 | 1.00026 | .99974 | 42 | 1.54811 |
| 02298 | 19 | .02298 | 43.5196 | .02298 | 43.5081 | 1.00026 | .99974 | 41 | 1.54782 |
| 02327 | 20 | .02327 | 42.9757 | .02328 | 42.9641 | 1.00027 | .99973 | 40 | 1.54753 |
| 02356 | 21 | .02356 | 42.4452 | .02357 | 42.4335 | 1.00028 | .99972 | 39 | 1.54723 |
| 02385 | 22 | .02385 | 41.9277 | .02386 | 41.9158 | 1.00028 | .99972 | 38 | 1.54694 |
| 02414 | 23 | .02414 | 41.4227 | .02415 | 41.4106 | 1.00029 | .99971 | 37 | 1.54665 |
| 02443 | 24 | .02443 | 40.9296 | .02444 | 40.9174 | 1.00030 | .99970 | 36 | 1.54636 |
| 02473 | 25 | .02472 | 40.4462 | .02473 | 40.4338 | 1.00031 | .99969 | 35 | 1.54607 |
| 02502 | 26 | .02501 | 39.9780 | .02502 | 39.9655 | 1.00031 | .99969 | 34 | 1.54578 |
| 02531 | 27 | .02530 | 39.5185 | .02531 | 39.5059 | 1.00032 | .99968 | 33 | 1.54549 |
| 02560 | 28 | .02560 | 39.0696 | .02560 | 39.0568 | 1.00033 | .99967 | 32 | 1.54520 |
| 02589 | 29 | .02589 | 38.6307 | .02589 | 38.6177 | 1.00034 | .99966 | 31 | 1.54491 |
| 02618 | 30 | .02618 | 38.2016 | .02619 | 38.1885 | 1.00034 | .99966 | 30 | 1.54462 |
| 02647 | 31 | .02647 | 37.7818 | .02648 | 37.7686 | 1.00035 | .99965 | 29 | 1.54433 |
| 02676 | 32 | .02676 | 37.3713 | .02677 | 37.3579 | 1.00036 | .99964 | 28 | 1.54403 |
| 02705 | 33 | .02705 | 36.9695 | .02706 | 36.9560 | 1.00037 | .99963 | 27 | 1.54374 |
| 02734 | 34 | .02734 | 36.5763 | .02735 | 36.5627 | 1.00037 | .99963 | 26 | 1.54345 |
| 02763 | 35 | .02763 | 36.1914 | .02764 | 36.1776 | 1.00038 | .99962 | 25 | 1.54316 |
| 02793 | 36 | .02792 | 35.8145 | .02793 | 35.8006 | 1.00039 | .99961 | 24 | 1.54287 |
| 02822 | 37 | .02821 | 35.4454 | .02822 | 35.4313 | 1.00040 | .99960 | 23 | 1.54258 |
| 02851 | 38 | .02850 | 35.0838 | .02851 | 35.0695 | 1.00041 | .99959 | 22 | 1.54229 |
| 02880 | 39 | .02879 | 34.7295 | .02881 | 34.7151 | 1.00041 | .99959 | 21 | 1.54200 |
| 02909 | 40 | .02908 | 34.3823 | .02910 | 34.3678 | 1.00042 | .99958 | 20 | 1.54171 |
| 02938 | 41 | .02938 | 34.0420 | .02939 | 34.0273 | 1.00043 | .99957 | 19 | 1.54142 |
| 02967 | 42 | .02967 | 33.7083 | .02968 | 33.6933 | 1.00044 | .99956 | 18 | 1.54113 |
| 02996 | 43 | .02996 | 33.3812 | .02997 | 33.3662 | 1.00045 | .99955 | 17 | 1.54083 |
| 03025 | 44 | .03025 | 33.0603 | .03026 | 33.0452 | 1.00046 | .99954 | 16 | 1.54054 |
| 03054 | 45 | .03054 | 32.7455 | .03055 | 32.7303 | 1.00047 | .99953 | 15 | 1.54025 |
| 03083 | 46 | .03083 | 32.4367 | .03084 | 32.4213 | 1.00048 | .99952 | 14 | 1.53996 |
| 03113 | 47 | .03112 | 32.1337 | .03114 | 32.1181 | 1.00048 | .99952 | 13 | 1.53967 |
| 03142 | 48 | .03141 | 31.8362 | .03143 | 31.8205 | 1.00049 | .99951 | 12 | 1.53938 |
| 03171 | 49 | .03170 | 31.5442 | .03172 | 31.5284 | 1.00050 | .99950 | 11 | 1.53909 |
| 03200 | 50 | .03199 | 31.2576 | .03201 | 31.2416 | 1.00051 | .99949 | 10 | 1.53880 |
| 03229 | 51 | .03228 | 30.9761 | .03230 | 30.9599 | 1.00052 | .99948 | 9 | 1.53851 |
| 03258 | 52 | .03257 | 30.6996 | .03259 | 30.6833 | 1.00053 | .99947 | 8 | 1.53822 |
| 03287 | 53 | .03286 | 30.4260 | .03288 | 30.4116 | 1.00054 | .99946 | 7 | 1.53793 |
| 03316 | 54 | .03316 | 30.1612 | .03317 | 30.1446 | 1.00055 | .99945 | 6 | 1.53764 |
| 03345 | 55 | .03345 | 29.8990 | .03346 | 29.8823 | 1.00056 | .99944 | 5 | 1.53734 |
| 03374 | 56 | .03374 | 29.6414 | .03376 | 29.6245 | 1.00057 | .99943 | 4 | 1.53705 |
| 03403 | 57 | .03403 | 29.3881 | .03405 | 29.3711 | 1.00058 | .99942 | 3 | 1.53676 |
| 03432 | 58 | .03432 | 29.1392 | .03434 | 29.1220 | 1.00059 | .99941 | 2 | 1.53647 |
| 03461 | 59 | .03461 | 28.8944 | .03463 | 28.8771 | 1.00060 | .99940 | 1 | 1.53618 |
| 03491 | 60 | .03490 | 28.6537 | .03492 | 28.6363 | 1.00061 | .99939 | 0 | 1.53589 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .03491 | 0 | .03490 | 28.6537 | .03492 | 28.6363 | 1.00061 | .99939 | 60 | 1.53589 |
| .03520 | 1 | .03519 | 28.4170 | .03521 | 28.3994 | 1.00062 | .99938 | 59 | 1.53560 |
| .03549 | 2 | .03548 | 28.1842 | .03550 | 28.1664 | 1.00063 | .99937 | 58 | 1.53531 |
| .03578 | 3 | .03577 | 27.9551 | .03579 | 27.9372 | 1.00064 | .99936 | 57 | 1.53502 |
| .03607 | 4 | .03606 | 27.7298 | .03609 | 27.7117 | 1.00065 | .99935 | 56 | 1.53473 |
| .03636 | 5 | .03635 | 27.5080 | .03638 | 27.4899 | 1.00066 | .99934 | 55 | 1.53444 |
| .03665 | 6 | .03664 | 27.2898 | .03667 | 27.2715 | 1.00067 | .99933 | 54 | 1.53414 |
| .03694 | 7 | .03693 | 27.0750 | .03696 | 27.0566 | 1.00068 | .99932 | 53 | 1.53385 |
| .03723 | 8 | .03723 | 26.8636 | .03725 | 26.8450 | 1.00069 | .99931 | 52 | 1.53356 |
| .03752 | 9 | .03752 | 26.6555 | .03754 | 26.6367 | 1.00070 | .99930 | 51 | 1.53327 |
| .03782 | 10 | .03781 | 26.4505 | .03783 | 26.4316 | 1.00072 | .99929 | 50 | 1.53298 |
| .03811 | 11 | .03810 | 26.2487 | .03812 | 26.2296 | 1.00073 | .99927 | 49 | 1.53269 |
| .03840 | 12 | .03839 | 26.0499 | .03842 | 26.0307 | 1.00074 | .99926 | 48 | 1.53240 |
| .03869 | 13 | .03868 | 25.8542 | .03871 | 25.8348 | 1.00075 | .99925 | 47 | 1.53211 |
| .03898 | 14 | .03897 | 25.6613 | .03900 | 25.6418 | 1.00076 | .99924 | 46 | 1.53182 |
| .03927 | 15 | .03926 | 25.4713 | .03929 | 25.4517 | 1.00077 | .99923 | 45 | 1.53153 |
| .03956 | 16 | .03955 | 25.2841 | .03958 | 25.2644 | 1.00078 | .99922 | 44 | 1.53124 |
| .03985 | 17 | .03984 | 25.0997 | .03987 | 25.0798 | 1.00079 | .99921 | 43 | 1.53094 |
| .04014 | 18 | .04013 | 24.9179 | .04016 | 24.8978 | 1.00081 | .99919 | 42 | 1.53065 |
| .04043 | 19 | .04042 | 24.7387 | .04046 | 24.7185 | 1.00082 | .99918 | 41 | 1.53036 |
| .04072 | 20 | .04071 | 24.5621 | .04075 | 24.5418 | 1.00083 | .99917 | 40 | 1.53007 |
| .04102 | 21 | .04100 | 24.3880 | .04104 | 24.3675 | 1.00084 | .99916 | 39 | 1.52978 |
| .04131 | 22 | .04129 | 24.2164 | .04133 | 24.1957 | 1.00085 | .99915 | 38 | 1.52949 |
| .04160 | 23 | .04159 | 24.0471 | .04162 | 24.0263 | 1.00087 | .99913 | 37 | 1.52920 |
| .04189 | 24 | .04188 | 23.8802 | .04191 | 23.8593 | 1.00088 | .99912 | 36 | 1.52891 |
| .04218 | 25 | .04217 | 23.7156 | .04220 | 23.6945 | 1.00089 | .99911 | 35 | 1.52862 |
| .04247 | 26 | .04246 | 23.5533 | .04250 | 23.5321 | 1.00090 | .99910 | 34 | 1.52833 |
| .04276 | 27 | .04275 | 23.3932 | .04279 | 23.3718 | 1.00091 | .99909 | 33 | 1.52804 |
| .04305 | 28 | .04304 | 23.2352 | .04308 | 23.2137 | 1.00093 | .99907 | 32 | 1.52774 |
| .04334 | 29 | .04333 | 23.0794 | .04337 | 23.0577 | 1.00094 | .99906 | 31 | 1.52745 |
| .04363 | 30 | .04362 | 22.9256 | .04366 | 22.9038 | 1.00095 | .99905 | 30 | 1.52716 |
| .04392 | 31 | .04391 | 22.7739 | .04395 | 22.7519 | 1.00097 | .99904 | 29 | 1.52687 |
| .04422 | 32 | .04420 | 22.6241 | .04424 | 22.6020 | 1.00098 | .99902 | 28 | 1.52658 |
| .04451 | 33 | .04449 | 22.4764 | .04454 | 22.4541 | 1.00099 | .99901 | 27 | 1.52629 |
| .04480 | 34 | .04478 | 22.3305 | .04483 | 22.3081 | 1.00100 | .99900 | 26 | 1.52600 |
| .04509 | 35 | .04507 | 22.1865 | .04512 | 22.1640 | 1.00102 | .99898 | 25 | 1.52571 |
| .04538 | 36 | .04536 | 22.0444 | .04541 | 22.0217 | 1.00103 | .99897 | 24 | 1.52542 |
| .04567 | 37 | .04565 | 21.9041 | .04570 | 21.8813 | 1.00104 | .99896 | 23 | 1.52513 |
| .04596 | 38 | .04594 | 21.7656 | .04599 | 21.7426 | 1.00106 | .99894 | 22 | 1.52484 |
| .04625 | 39 | .04623 | 21.6288 | .04628 | 21.6056 | 1.00107 | .99893 | 21 | 1.52455 |
| .04654 | 40 | .04653 | 21.4937 | .04658 | 21.4704 | 1.00108 | .99892 | 20 | 1.52425 |
| .04683 | 41 | .04682 | 21.3603 | .04687 | 21.3369 | 1.00110 | .99890 | 19 | 1.52396 |
| .04712 | 42 | .04711 | 21.2285 | .04716 | 21.2049 | 1.00111 | .99889 | 18 | 1.52367 |
| .04741 | 43 | .04740 | 21.0984 | .04745 | 21.0747 | 1.00113 | .99888 | 17 | 1.52338 |
| .04771 | 44 | .04769 | 20.9698 | .04774 | 20.9460 | 1.00114 | .99886 | 16 | 1.52309 |
| .04800 | 45 | .04798 | 20.8428 | .04803 | 20.8188 | 1.00115 | .99885 | 15 | 1.52280 |
| .04829 | 46 | .04827 | 20.7174 | .04833 | 20.6932 | 1.00117 | .99883 | 14 | 1.52251 |
| .04858 | 47 | .04856 | 20.5934 | .04862 | 20.5691 | 1.00118 | .99882 | 13 | 1.52222 |
| .04887 | 48 | .04885 | 20.4709 | .04891 | 20.4465 | 1.00120 | .99881 | 12 | 1.52193 |
| .04916 | 49 | .04914 | 20.3499 | .04920 | 20.3253 | 1.00121 | .99879 | 11 | 1.52164 |
| .04945 | 50 | .04943 | 20.2303 | .04949 | 20.2056 | 1.00122 | .99878 | 10 | 1.52135 |
| .04974 | 51 | .04972 | 20.1121 | .04978 | 20.0872 | 1.00124 | .99876 | 9 | 1.52105 |
| .05003 | 52 | .05001 | 19.9952 | .05007 | 19.9702 | 1.00125 | .99875 | 8 | 1.52076 |
| .05032 | 53 | .05030 | 19.8798 | .05037 | 19.8546 | 1.00127 | .99873 | 7 | 1.52047 |
| .05061 | 54 | .05059 | 19.7656 | .05066 | 19.7403 | 1.00128 | .99872 | 6 | 1.52018 |
| .05091 | 55 | .05088 | 19.6528 | .05095 | 19.6273 | 1.00130 | .99870 | 5 | 1.51989 |
| .05120 | 56 | .05117 | 19.5412 | .05124 | 19.5156 | 1.00131 | .99869 | 4 | 1.51960 |
| .05149 | 57 | .05146 | 19.4309 | .05153 | 19.4051 | 1.00133 | .99867 | 3 | 1.51931 |
| .05178 | 58 | .05175 | 19.3218 | .05182 | 19.2959 | 1.00134 | .99866 | 2 | 1.51902 |
| .05207 | 59 | .05205 | 19.2140 | .05212 | 19.1879 | 1.00136 | .99864 | 1 | 1.51873 |
| .05236 | 60 | .05234 | 19.1073 | .05241 | 19.0811 | 1.00137 | .99863 | 0 | 1.51844 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .05236 | 0 | .05234 | 19.1073 | .05241 | 19.0811 | 1.00137 | .99863 | 60 | 1.51844 |
| .05265 | 1 | .05263 | 19.0019 | .05270 | 18.9755 | 1.00139 | .99861 | 59 | 1.51815 |
| .05294 | 2 | .05292 | 18.8975 | .05299 | 18.8711 | 1.00140 | .99860 | 58 | 1.51785 |
| .05323 | 3 | .05321 | 18.7944 | .05328 | 18.7678 | 1.00142 | .99858 | 57 | 1.51756 |
| .05352 | 4 | .05350 | 18.6923 | .05357 | 18.6656 | 1.00143 | .99857 | 56 | 1.51727 |
| .05381 | 5 | .05379 | 18.5914 | .05387 | 18.5645 | 1.00145 | .99855 | 55 | 1.51698 |
| .05411 | 6 | .05408 | 18.4915 | .05416 | 18.4645 | 1.00147 | .99854 | 54 | 1.51669 |
| .05440 | 7 | .05437 | 18.3927 | .05445 | 18.3655 | 1.00148 | .99852 | 53 | 1.51640 |
| .05469 | 8 | .05466 | 18.2950 | .05474 | 18.2677 | 1.00150 | .99851 | 52 | 1.51611 |
| .05498 | 9 | .05495 | 18.1983 | .05503 | 18.1708 | 1.00151 | .99849 | 51 | 1.51582 |
| .05527 | 10 | .05524 | 18.1026 | .05533 | 18.0750 | 1.00153 | .99847 | 50 | 1.51553 |
| .05556 | 11 | .05553 | 18.0079 | .05562 | 17.9802 | 1.00155 | .99846 | 49 | 1.51524 |
| .05585 | 12 | .05582 | 17.9142 | .05591 | 17.8863 | 1.00156 | .99844 | 48 | 1.51495 |
| .05614 | 13 | .05611 | 17.8215 | .05620 | 17.7934 | 1.00158 | .99842 | 47 | 1.51465 |
| .05643 | 14 | .05640 | 17.7298 | .05649 | 17.7015 | 1.00159 | .99841 | 46 | 1.51436 |
| .05672 | 15 | .05669 | 17.6389 | .05678 | 17.6106 | 1.00161 | .99839 | 45 | 1.51407 |
| .05701 | 16 | .05698 | 17.5490 | .05708 | 17.5205 | 1.00163 | .99838 | 44 | 1.51378 |
| .05730 | 17 | .05727 | 17.4600 | .05737 | 17.4314 | 1.00164 | .99836 | 43 | 1.51349 |
| .05760 | 18 | .05756 | 17.3720 | .05766 | 17.3432 | 1.00166 | .99834 | 42 | 1.51320 |
| .05789 | 19 | .05785 | 17.2848 | .05795 | 17.2558 | 1.00168 | .99833 | 41 | 1.51291 |
| .05818 | 20 | .05814 | 17.1984 | .05824 | 17.1693 | 1.00169 | .99831 | 40 | 1.51262 |
| .05847 | 21 | .05844 | 17.1130 | .05854 | 17.0837 | 1.00171 | .99829 | 39 | 1.51233 |
| .05876 | 22 | .05873 | 17.0283 | .05883 | 16.9990 | 1.00173 | .99827 | 38 | 1.51204 |
| .05905 | 23 | .05902 | 16.9446 | .05912 | 16.9150 | 1.00175 | .99826 | 37 | 1.51175 |
| .05934 | 24 | .05931 | 16.8616 | .05941 | 16.8319 | 1.00176 | .99824 | 36 | 1.51146 |
| .05963 | 25 | .05960 | 16.7794 | .05970 | 16.7496 | 1.00178 | .99822 | 35 | 1.51116 |
| .05992 | 26 | .05989 | 16.6981 | .05999 | 16.6681 | 1.00180 | .99821 | 34 | 1.51087 |
| .06021 | 27 | .06018 | 16.6175 | .06029 | 16.5874 | 1.00182 | .99819 | 33 | 1.51058 |
| .06050 | 28 | .06047 | 16.5377 | .06058 | 16.5075 | 1.00183 | .99817 | 32 | 1.51029 |
| .06080 | 29 | .06076 | 16.4587 | .06087 | 16.4283 | 1.00185 | .99815 | 31 | 1.51000 |
| .06109 | 30 | .06105 | 16.3800 | .06115 | 16.3500 | 1.00187 | .99813 | 30 | 1.50971 |
| .06138 | 31 | .06134 | 16.3029 | .06145 | 16.2722 | 1.00189 | .99812 | 29 | 1.50942 |
| .06167 | 32 | .06163 | 16.2261 | .06175 | 16.1952 | 1.00190 | .99810 | 28 | 1.50913 |
| .06196 | 33 | .06192 | 16.1500 | .06204 | 16.1190 | 1.00192 | .99808 | 27 | 1.50884 |
| .06225 | 34 | .06221 | 16.0746 | .06233 | 16.0435 | 1.00194 | .99806 | 26 | 1.50855 |
| .06254 | 35 | .06250 | 15.9999 | .06262 | 15.9687 | 1.00196 | .99804 | 25 | 1.50826 |
| .06283 | 36 | .06279 | 15.9260 | .06291 | 15.8945 | 1.00198 | .99803 | 24 | 1.50796 |
| .06312 | 37 | .06308 | 15.8527 | .06321 | 15.8211 | 1.00200 | .99801 | 23 | 1.50767 |
| .06341 | 38 | .06337 | 15.7801 | .06350 | 15.7483 | 1.00201 | .99799 | 22 | 1.50738 |
| .06370 | 39 | .06366 | 15.7081 | .06379 | 15.6762 | 1.00203 | .99797 | 21 | 1.50709 |
| .06400 | 40 | .06395 | 15.6368 | .06408 | 15.6048 | 1.00205 | .99795 | 20 | 1.50680 |
| .06429 | 41 | .06424 | 15.5661 | .06438 | 15.5340 | 1.00207 | .99793 | 19 | 1.50651 |
| .06458 | 42 | .06453 | 15.4961 | .06467 | 15.4638 | 1.00209 | .99792 | 18 | 1.50622 |
| .06487 | 43 | .06482 | 15.4267 | .06496 | 15.3943 | 1.00211 | .99790 | 17 | 1.50593 |
| .06516 | 44 | .06511 | 15.3579 | .06525 | 15.3254 | 1.00213 | .99788 | 16 | 1.50564 |
| .06545 | 45 | .06540 | 15.2898 | .06554 | 15.2571 | 1.00215 | .99786 | 15 | 1.50535 |
| .06574 | 46 | .06569 | 15.2222 | .06584 | 15.1893 | 1.00216 | .99784 | 14 | 1.50506 |
| .06603 | 47 | .06598 | 15.1553 | .06613 | 15.1222 | 1.00218 | .99782 | 13 | 1.50476 |
| .06632 | 48 | .06627 | 15.0889 | .06642 | 15.0557 | 1.00220 | .99780 | 12 | 1.50447 |
| .06661 | 49 | .06656 | 15.0231 | .06671 | 14.9839 | 1.00222 | .99778 | 11 | 1.50418 |
| .06690 | 50 | .06685 | 14.9579 | .06700 | 14.9271 | 1.00224 | .99776 | 10 | 1.50389 |
| .06720 | 51 | .06714 | 14.8932 | .06730 | 14.8596 | 1.00226 | .99774 | 9 | 1.50360 |
| .06749 | 52 | .06743 | 14.8291 | .06759 | 14.7954 | 1.00228 | .99772 | 8 | 1.50331 |
| .06778 | 53 | .06773 | 14.7656 | .06788 | 14.7317 | 1.00230 | .99770 | 7 | 1.50302 |
| .06807 | 54 | .06802 | 14.7026 | .06817 | 14.6685 | 1.00232 | .99768 | 6 | 1.50273 |
| .06836 | 55 | .06831 | 14.6401 | .06847 | 14.6059 | 1.00234 | .99766 | 5 | 1.50244 |
| .06865 | 56 | .06860 | 14.5782 | .06876 | 14.5438 | 1.00236 | .99764 | 4 | 1.50215 |
| .06894 | 57 | .06889 | 14.5168 | .06905 | 14.4823 | 1.00238 | .99762 | 3 | 1.50186 |
| .06923 | 58 | .06918 | 14.4559 | .06934 | 14.4212 | 1.00240 | .99760 | 2 | 1.50157 |
| .06952 | 59 | .06947 | 14.3955 | .06963 | 14.3607 | 1.00242 | .99758 | 1 | 1.50128 |
| .06981 | 60 | .06976 | 14.3356 | .06993 | 14.3307 | 1.00244 | .99756 | 0 | 1.50098 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .06981 | 0 | .06976 | 14.3356 | .06993 | 14.3007 | 1.00244 | .99756 | 60 | 1.50098 |
| .07010 | 1 | .07005 | 14.2762 | .07022 | 14.2411 | 1.00246 | .99754 | 59 | 1.50069 |
| .07039 | 2 | .07034 | 14.2173 | .07051 | 14.1821 | 1.00248 | .99752 | 58 | 1.50040 |
| .07069 | 3 | .07063 | 14.1589 | .07080 | 14.1235 | 1.00250 | .99750 | 57 | 1.50011 |
| .07098 | 4 | .07092 | 14.1010 | .07110 | 14.0655 | 1.00252 | .99748 | 56 | 1.49982 |
| .07127 | 5 | .07121 | 14.0435 | .07139 | 14.0079 | 1.00254 | .99746 | 55 | 1.49953 |
| .07156 | 6 | .07150 | 13.9865 | .07168 | 13.9507 | 1.00257 | .99744 | 54 | 1.49924 |
| .07185 | 7 | .07179 | 13.9300 | .07197 | 13.8940 | 1.00259 | .99742 | 53 | 1.49895 |
| .07214 | 8 | .07208 | 13.8739 | .07227 | 13.8378 | 1.00261 | .99740 | 52 | 1.49866 |
| .07243 | 9 | .07237 | 13.8183 | .07256 | 13.7821 | 1.00263 | .99738 | 51 | 1.49837 |
| .07272 | 10 | .07266 | 13.7631 | .07285 | 13.7267 | 1.00265 | .99736 | 50 | 1.49807 |
| .07301 | 11 | .07295 | 13.7084 | .07314 | 13.6719 | 1.00267 | .99734 | 49 | 1.49778 |
| .07330 | 12 | .07324 | 13.6541 | .07344 | 13.6174 | 1.00269 | .99731 | 48 | 1.49749 |
| .07359 | 13 | .07353 | 13.6002 | .07373 | 13.5634 | 1.00271 | .99729 | 47 | 1.49720 |
| .07389 | 14 | .07382 | 13.5468 | .07402 | 13.5098 | 1.00274 | .99727 | 46 | 1.49691 |
| .07418 | 15 | .07411 | 13.4937 | .07431 | 13.4566 | 1.00276 | .99725 | 45 | 1.49662 |
| .07447 | 16 | .07440 | 13.4411 | .07461 | 13.4039 | 1.00278 | .99723 | 44 | 1.49633 |
| .07476 | 17 | .07469 | 13.3889 | .07490 | 13.3515 | 1.00280 | .99721 | 43 | 1.49604 |
| .07505 | 18 | .07498 | 13.3371 | .07519 | 13.2996 | 1.00282 | .99719 | 42 | 1.49575 |
| .07534 | 19 | .07527 | 13.2857 | .07548 | 13.2480 | 1.00284 | .99716 | 41 | 1.49546 |
| .07563 | 20 | .07556 | 13.2347 | .07578 | 13.1969 | 1.00287 | .99714 | 40 | 1.49517 |
| .07592 | 21 | .07585 | 13.1841 | .07607 | 13.1461 | 1.00289 | .99712 | 39 | 1.49487 |
| .07621 | 22 | .07614 | 13.1339 | .07636 | 13.0958 | 1.00291 | .99710 | 38 | 1.49458 |
| .07650 | 23 | .07643 | 13.0840 | .07665 | 13.0458 | 1.00293 | .99708 | 37 | 1.49429 |
| .07679 | 24 | .07672 | 13.0346 | .07695 | 12.9962 | 1.00296 | .99705 | 36 | 1.49400 |
| .07709 | 25 | .07701 | 12.9855 | .07724 | 12.9469 | 1.00298 | .99703 | 35 | 1.49371 |
| .07738 | 26 | .07730 | 12.9368 | .07753 | 12.8981 | 1.00300 | .99701 | 34 | 1.49342 |
| .07767 | 27 | .07759 | 12.8884 | .07782 | 12.8496 | 1.00302 | .99699 | 33 | 1.49313 |
| .07796 | 28 | .07788 | 12.8404 | .07812 | 12.8014 | 1.00305 | .99696 | 32 | 1.49284 |
| .07825 | 29 | .07817 | 12.7928 | .07841 | 12.7536 | 1.00307 | .99694 | 31 | 1.49255 |
| .07854 | 30 | .07846 | 12.7455 | .07870 | 12.7062 | 1.00309 | .99692 | 30 | 1.49226 |
| .07883 | 31 | .07875 | 12.6986 | .07899 | 12.6591 | 1.00312 | .99689 | 29 | 1.49197 |
| .07912 | 32 | .07904 | 12.6520 | .07929 | 12.6124 | 1.00314 | .99687 | 28 | 1.49167 |
| .07941 | 33 | .07933 | 12.6057 | .07958 | 12.5660 | 1.00316 | .99685 | 27 | 1.49138 |
| .07970 | 34 | .07962 | 12.5598 | .07987 | 12.5199 | 1.00318 | .99683 | 26 | 1.49109 |
| .07999 | 35 | .07991 | 12.5142 | .08017 | 12.4742 | 1.00321 | .99680 | 25 | 1.49080 |
| .08029 | 36 | .08020 | 12.4690 | .08046 | 12.4288 | 1.00323 | .99678 | 24 | 1.49051 |
| .08058 | 37 | .08049 | 12.4241 | .08075 | 12.3838 | 1.00326 | .99676 | 23 | 1.49022 |
| .08087 | 38 | .08078 | 12.3795 | .08104 | 12.3390 | 1.00328 | .99673 | 22 | 1.48993 |
| .08116 | 39 | .08107 | 12.3352 | .08134 | 12.2946 | 1.00330 | .99671 | 21 | 1.48964 |
| .08145 | 40 | .08136 | 12.2913 | .08165 | 12.2505 | 1.00331 | .99669 | 20 | 1.48935 |
| .08174 | 41 | .08165 | 12.2476 | .08192 | 12.2067 | 1.00335 | .99666 | 19 | 1.48906 |
| .08203 | 42 | .08194 | 12.2043 | .08221 | 12.1632 | 1.00337 | .99664 | 18 | 1.48877 |
| .08232 | 43 | .08223 | 12.1612 | .08251 | 12.1201 | 1.00340 | .99661 | 17 | 1.48847 |
| .08261 | 44 | .08252 | 12.1185 | .08280 | 12.0772 | 1.00342 | .99659 | 16 | 1.48818 |
| .08290 | 45 | .08281 | 12.0761 | .08309 | 12.0346 | 1.00345 | .99657 | 15 | 1.48789 |
| .08319 | 46 | .08310 | 12.0340 | .08339 | 11.9923 | 1.00347 | .99654 | 14 | 1.48760 |
| .08348 | 47 | .08339 | 11.9921 | .08368 | 11.9504 | 1.00350 | .99652 | 13 | 1.48731 |
| .08378 | 48 | .08368 | 11.9506 | .08397 | 11.9087 | 1.00352 | .99649 | 12 | 1.48702 |
| .08407 | 49 | .08397 | 11.9093 | .08427 | 11.8673 | 1.00354 | .99647 | 11 | 1.48673 |
| .08436 | 50 | .08386 | 11.8684 | .08456 | 11.8262 | 1.00357 | .99644 | 10 | 1.48644 |
| .08465 | 51 | .08455 | 11.8277 | .08485 | 11.7853 | 1.00359 | .99642 | 9 | 1.48615 |
| .08494 | 52 | .08484 | 11.7873 | .08514 | 11.7448 | 1.00362 | .99639 | 8 | 1.48586 |
| .08523 | 53 | .08513 | 11.7471 | .08544 | 11.7045 | 1.00364 | .99637 | 7 | 1.48557 |
| .08552 | 54 | .08542 | 11.7073 | .08573 | 11.6645 | 1.00367 | .99635 | 6 | 1.48528 |
| .08581 | 55 | .08571 | 11.6677 | .08602 | 11.6248 | 1.00369 | .99632 | 5 | 1.48498 |
| .08610 | 56 | .08600 | 11.6284 | .08632 | 11.5853 | 1.00372 | .99630 | 4 | 1.48469 |
| .08639 | 57 | .08629 | 11.5893 | .08661 | 11.5461 | 1.00374 | .99627 | 3 | 1.48440 |
| .08668 | 58 | .08658 | 11.5505 | .08690 | 11.5072 | 1.00377 | .99625 | 2 | 1.48411 |
| .08696 | 59 | .08687 | 11.5120 | .08720 | 11.4685 | 1.00379 | .99622 | 1 | 1.48382 |
| .08727 | 60 | .08716 | 11.4737 | .08749 | 11.4301 | 1.00382 | .99619 | 0 | 1.48353 |
| | | Cos. | Sec. | Cot. | Tan. | Ccsec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .08727 | 0 | .08716 | 11.4737 | .08749 | 11.4301 | 1.00382 | .99619 | 60 | 1.48353 |
| .08756 | 1 | .08745 | 11.4357 | .08778 | 11.3919 | 1.00385 | .99617 | 59 | 1.48324 |
| .08785 | 2 | .08774 | 11.3979 | .08807 | 11.3540 | 1.00387 | .99614 | 58 | 1.48295 |
| .08814 | 3 | .08803 | 11.3604 | .08837 | 11.3163 | 1.00390 | .99612 | 57 | 1.48266 |
| .08843 | 4 | .08831 | 11.3231 | .08866 | 11.2789 | 1.00392 | .99609 | 56 | 1.48237 |
| .08872 | 5 | .08860 | 11.2861 | .08895 | 11.2417 | 1.00395 | .99607 | 55 | 1.48208 |
| .08901 | 6 | .08889 | 11.2493 | .08925 | 11.2048 | 1.00397 | .99604 | 54 | 1.48178 |
| .08930 | 7 | .08918 | 11.2128 | .08954 | 11.1681 | 1.00400 | .99602 | 53 | 1.48149 |
| .08959 | 8 | .08947 | 11.1765 | .08983 | 11.1316 | 1.00403 | .99599 | 52 | 1.48120 |
| .08988 | 9 | .08976 | 11.1404 | .09013 | 11.0954 | 1.00405 | .99596 | 51 | 1.48091 |
| .09018 | 10 | .09005 | 11.1045 | .09042 | 11.0594 | 1.00408 | .99594 | 50 | 1.48062 |
| .09047 | 11 | .09034 | 11.0689 | .09071 | 11.0237 | 1.00411 | .99591 | 49 | 1.48033 |
| .09076 | 12 | .09063 | 11.0336 | .09101 | 10.9882 | 1.00413 | .99588 | 48 | 1.48004 |
| .09105 | 13 | .09092 | 10.9984 | .09130 | 10.9529 | 1.00416 | .99586 | 47 | 1.47975 |
| .09134 | 14 | .09121 | 10.9635 | .09159 | 10.9178 | 1.00419 | .99583 | 46 | 1.47946 |
| .09163 | 15 | .09150 | 10.9288 | .09189 | 10.8829 | 1.00421 | .99580 | 45 | 1.47917 |
| .09192 | 16 | .09179 | 10.8943 | .09218 | 10.8483 | 1.00424 | .99578 | 44 | 1.47888 |
| .09221 | 17 | .09208 | 10.8600 | .09247 | 10.8139 | 1.00427 | .99575 | 43 | 1.47859 |
| .09250 | 18 | .09237 | 10.8260 | .09277 | 10.7797 | 1.00429 | .99572 | 42 | 1.47829 |
| .09279 | 19 | .09266 | 10.7921 | .09306 | 10.7457 | 1.00432 | .99570 | 41 | 1.47800 |
| .09308 | 20 | .09295 | 10.7585 | .09335 | 10.7119 | 1.00435 | .99567 | 40 | 1.47771 |
| .09338 | 21 | .09324 | 10.7251 | .09365 | 10.6783 | 1.00438 | .99564 | 39 | 1.47742 |
| .09367 | 22 | .09353 | 10.6919 | .09394 | 10.6450 | 1.00440 | .99562 | 38 | 1.47713 |
| .09396 | 23 | .09382 | 10.6589 | .09423 | 10.6118 | 1.00443 | .99559 | 37 | 1.47684 |
| .09425 | 24 | .09411 | 10.6261 | .09453 | 10.5789 | 1.00446 | .99556 | 36 | 1.47655 |
| .09454 | 25 | .09440 | 10.5935 | .09482 | 10.5462 | 1.00449 | .99553 | 35 | 1.47626 |
| .09483 | 26 | .09469 | 10.5611 | .09511 | 10.5136 | 1.00451 | .99551 | 34 | 1.47697 |
| .09512 | 27 | .09498 | 10.5289 | .09541 | 10.4813 | 1.00454 | .99548 | 33 | 1.47658 |
| .09541 | 28 | .09527 | 10.4969 | .09570 | 10.4491 | 1.00457 | .99545 | 32 | 1.47638 |
| .09570 | 29 | .09556 | 10.4650 | .09600 | 10.4172 | 1.00460 | .99542 | 31 | 1.47599 |
| .09599 | 30 | .09585 | 10.4334 | .09629 | 10.3854 | 1.00463 | .99540 | 30 | 1.47480 |
| .09628 | 31 | .09614 | 10.4022 | .09658 | 10.3537 | 1.00465 | .99537 | 29 | 1.47451 |
| .09657 | 32 | .09642 | 10.3708 | .09688 | 10.3224 | 1.00468 | .99534 | 28 | 1.47422 |
| .09687 | 33 | .09671 | 10.3397 | .09717 | 10.2913 | 1.00471 | .99531 | 27 | 1.47393 |
| .09716 | 34 | .09700 | 10.3089 | .09746 | 10.2602 | 1.00474 | .99528 | 26 | 1.47364 |
| .09745 | 35 | .09729 | 10.2782 | .09776 | 10.2294 | 1.00477 | .99526 | 25 | 1.47335 |
| .09774 | 36 | .09758 | 10.2477 | .09805 | 10.1988 | 1.00480 | .99523 | 24 | 1.47306 |
| .09803 | 37 | .09787 | 10.2174 | .09834 | 10.1683 | 1.00482 | .99520 | 23 | 1.47277 |
| .09832 | 38 | .09816 | 10.1873 | .09864 | 10.1381 | 1.00485 | .99517 | 22 | 1.47248 |
| .09861 | 39 | .09845 | 10.1573 | .09893 | 10.1080 | 1.00488 | .99514 | 21 | 1.47219 |
| .09890 | 40 | .09874 | 10.1275 | .09923 | 10.0780 | 1.00491 | .99511 | 20 | 1.47189 |
| .09919 | 41 | .09903 | 10.0979 | .09952 | 10.0483 | 1.00494 | .99508 | 19 | 1.47160 |
| .09948 | 42 | .09932 | 10.0685 | .09981 | 10.0187 | 1.00497 | .99506 | 18 | 1.47131 |
| .09977 | 43 | .09961 | 10.0392 | .10011 | 9.98931 | 1.00500 | .99503 | 17 | 1.47102 |
| .10007 | 44 | .09990 | 10.0101 | .10040 | 9.96007 | 1.00503 | .99500 | 16 | 1.47073 |
| .10036 | 45 | .10019 | 9.98123 | .10069 | 9.93101 | 1.00506 | .99497 | 15 | 1.47044 |
| .10065 | 46 | .10048 | 9.95248 | .10099 | 9.90211 | 1.00509 | .99494 | 14 | 1.47015 |
| .10094 | 47 | .10077 | 9.92389 | .10128 | 9.87338 | 1.00512 | .99491 | 13 | 1.46986 |
| .10123 | 48 | .10106 | 9.89547 | .10158 | 9.84482 | 1.00515 | .99488 | 12 | 1.46957 |
| .10152 | 49 | .10135 | 9.86722 | .10187 | 9.81641 | 1.00518 | .99485 | 11 | 1.46928 |
| .10181 | 50 | .10164 | 9.83912 | .10216 | 9.78817 | 1.00521 | .99482 | 10 | 1.46899 |
| .10210 | 51 | .10192 | 9.81119 | .10246 | 9.76009 | 1.00524 | .99479 | 9 | 1.46869 |
| .10239 | 52 | .10221 | 9.78341 | .10275 | 9.73217 | 1.00527 | .99476 | 8 | 1.46840 |
| .10268 | 53 | .10250 | 9.75579 | .10305 | 9.70441 | 1.00530 | .99473 | 7 | 1.46811 |
| .10297 | 54 | .10279 | 9.72833 | .10334 | 9.67680 | 1.00533 | .99470 | 6 | 1.46782 |
| .10327 | 55 | .10308 | 9.70103 | .10363 | 9.64935 | 1.00536 | .99467 | 5 | 1.46753 |
| .10356 | 56 | .10337 | 9.67387 | .10393 | 9.62205 | 1.00539 | .99464 | 4 | 1.46724 |
| .10385 | 57 | .10366 | 9.64687 | .10422 | 9.59490 | 1.00542 | .99461 | 3 | 1.46695 |
| .10414 | 58 | .10395 | 9.62002 | .10452 | 9.56791 | 1.00545 | .99458 | 2 | 1.46666 |
| .10443 | 59 | .10424 | 9.59332 | .10481 | 9.54121 | 1.00548 | .99455 | 1 | 1.46637 |
| .10472 | 60 | .10453 | 9.56577 | .10510 | 9.51479 | 1.00551 | .99452 | 0 | 1.46608 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .10472 | 0 | .10453 | 9.56677 | .10510 | 9.51436 | 1.00551 | .99452 | 60 | 1.46608 |
| .10501 | 1 | .10482 | 9.54037 | .10540 | 9.48781 | 1.00554 | .99449 | 59 | 1.46579 |
| .10530 | 2 | .10511 | 9.51411 | .10569 | 9.46141 | 1.00557 | .99446 | 58 | 1.46549 |
| .10559 | 3 | .10540 | 9.48800 | .10599 | 9.43515 | 1.00560 | .99443 | 57 | 1.46520 |
| .10588 | 4 | .10569 | 9.46203 | .10628 | 9.40904 | 1.00563 | .99440 | 56 | 1.46491 |
| .10617 | 5 | .10597 | 9.43620 | .10657 | 9.38307 | 1.00566 | .99437 | 55 | 1.46462 |
| .10647 | 6 | .10626 | 9.41052 | .10687 | 9.35724 | 1.00569 | .99434 | 54 | 1.46433 |
| .10676 | 7 | .10655 | 9.38497 | .10716 | 9.33155 | 1.00573 | .99431 | 53 | 1.46404 |
| .10705 | 8 | .10684 | 9.35957 | .10746 | 9.30599 | 1.00576 | .99428 | 52 | 1.46375 |
| .10734 | 9 | .10713 | 9.33430 | .10775 | 9.28058 | 1.00579 | .99424 | 51 | 1.46346 |
| .10763 | 10 | .10742 | 9.30917 | .10805 | 9.25530 | 1.00582 | .99421 | 50 | 1.46317 |
| .10792 | 11 | .10771 | 9.28417 | .10834 | 9.23016 | 1.00585 | .99418 | 49 | 1.46288 |
| .10821 | 12 | .10800 | 9.25931 | .10863 | 9.20516 | 1.00588 | .99415 | 48 | 1.46259 |
| .10850 | 13 | .10829 | 9.23459 | .10893 | 9.18028 | 1.00592 | .99412 | 47 | 1.46230 |
| .10879 | 14 | .10858 | 9.20999 | .10922 | 9.15554 | 1.00595 | .99409 | 46 | 1.46200 |
| .10908 | 15 | .10887 | 9.18553 | .10952 | 9.13093 | 1.00598 | .99406 | 45 | 1.46171 |
| .10937 | 16 | .10916 | 9.16120 | .10981 | 9.10646 | 1.00601 | .99402 | 44 | 1.46142 |
| .10966 | 17 | .10945 | 9.13699 | .11011 | 9.08211 | 1.00604 | .99399 | 43 | 1.46113 |
| .10996 | 18 | .10973 | 9.11292 | .11040 | 9.05789 | 1.00608 | .99396 | 42 | 1.46084 |
| .11025 | 19 | .11002 | 9.08897 | .11070 | 9.03379 | 1.00611 | .99393 | 41 | 1.46055 |
| .11054 | 20 | .11031 | 9.06515 | .11099 | 9.00983 | 1.00614 | .99390 | 40 | 1.46026 |
| .11083 | 21 | .11060 | 9.04146 | .11128 | 8.98598 | 1.00617 | .99386 | 39 | 1.45997 |
| .11112 | 22 | .11089 | 9.01788 | .11158 | 8.96227 | 1.00621 | .99383 | 38 | 1.45968 |
| .11141 | 23 | .11118 | 8.99444 | .11187 | 8.93867 | 1.00624 | .99380 | 37 | 1.45939 |
| .11170 | 24 | .11147 | 8.97111 | .11217 | 8.91520 | 1.00627 | .99377 | 36 | 1.45910 |
| .11199 | 25 | .11176 | 8.94791 | .11246 | 8.89185 | 1.00630 | .99374 | 35 | 1.45880 |
| .11228 | 26 | .11205 | 8.92482 | .11276 | 8.86862 | 1.00634 | .99370 | 34 | 1.45851 |
| .11257 | 27 | .11234 | 8.90186 | .11305 | 8.84551 | 1.00637 | .99367 | 33 | 1.45822 |
| .11286 | 28 | .11263 | 8.87901 | .11335 | 8.82252 | 1.00640 | .99364 | 32 | 1.45793 |
| .11316 | 29 | .11291 | 8.85628 | .11364 | 8.79964 | 1.00644 | .99360 | 31 | 1.45764 |
| .11345 | 30 | .11320 | 8.83367 | .11394 | 8.77689 | 1.00647 | .99357 | 30 | 1.45735 |
| .11374 | 31 | .11349 | 8.81116 | .11423 | 8.75425 | 1.00650 | .99354 | 29 | 1.45706 |
| .11403 | 32 | .11378 | 8.78880 | .11452 | 8.73172 | 1.00654 | .99351 | 28 | 1.45677 |
| .11432 | 33 | .11407 | 8.76653 | .11482 | 8.70931 | 1.00657 | .99347 | 27 | 1.45648 |
| .11461 | 34 | .11436 | 8.74438 | .11511 | 8.68701 | 1.00660 | .99344 | 26 | 1.45619 |
| .11490 | 35 | .11465 | 8.72234 | .11541 | 8.66482 | 1.00664 | .99341 | 25 | 1.45590 |
| .11519 | 36 | .11494 | 8.70041 | .11570 | 8.64275 | 1.00667 | .99337 | 24 | 1.45560 |
| .11548 | 37 | .11523 | 8.67859 | .11600 | 8.62078 | 1.00671 | .99334 | 23 | 1.45531 |
| .11577 | 38 | .11552 | 8.65688 | .11629 | 8.59893 | 1.00674 | .99331 | 22 | 1.45502 |
| .11606 | 39 | .11580 | 8.63528 | .11659 | 8.57718 | 1.00677 | .99327 | 21 | 1.45473 |
| .11636 | 40 | .11609 | 8.61379 | .11688 | 8.55555 | 1.00681 | .99324 | 20 | 1.45444 |
| .11665 | 41 | .11638 | 8.59241 | .11718 | 8.53402 | 1.00684 | .99320 | 19 | 1.45415 |
| .11694 | 42 | .11667 | 8.57113 | .11747 | 8.51259 | 1.00688 | .99317 | 18 | 1.45386 |
| .11723 | 43 | .11696 | 8.54996 | .11777 | 8.49128 | 1.00691 | .99314 | 17 | 1.45357 |
| .11752 | 44 | .11725 | 8.52889 | .11806 | 8.47007 | 1.00695 | .99310 | 16 | 1.45328 |
| .11781 | 45 | .11754 | 8.50793 | .11836 | 8.44896 | 1.00698 | .99307 | 15 | 1.45299 |
| .11810 | 46 | .11783 | 8.48707 | .11865 | 8.42795 | 1.00701 | .99303 | 14 | 1.45270 |
| .11839 | 47 | .11812 | 8.46632 | .11895 | 8.40705 | 1.00705 | .99300 | 13 | 1.45240 |
| .11868 | 48 | .11840 | 8.44566 | .11924 | 8.38625 | 1.00708 | .99297 | 12 | 1.45211 |
| .11897 | 49 | .11869 | 8.42511 | .11954 | 8.36555 | 1.00712 | .99294 | 11 | 1.45182 |
| .11926 | 50 | .11898 | 8.40461 | .11983 | 8.34495 | 1.00715 | .99291 | 10 | 1.45153 |
| .11956 | 51 | .11927 | 8.38431 | .12013 | 8.32445 | 1.00719 | .99288 | 9 | 1.45124 |
| .11985 | 52 | .11956 | 8.36405 | .12042 | 8.30406 | 1.00722 | .99283 | 8 | 1.45095 |
| .12014 | 53 | .11985 | 8.34390 | .12072 | 8.28376 | 1.00726 | .99279 | 7 | 1.45066 |
| .12043 | 54 | .12014 | 8.32384 | .12101 | 8.26355 | 1.00730 | .99276 | 6 | 1.45037 |
| .12072 | 55 | .12043 | 8.30388 | .12131 | 8.24345 | 1.00733 | .99272 | 5 | 1.45008 |
| .12101 | 56 | .12072 | 8.28402 | .12160 | 8.22344 | 1.00737 | .99269 | 4 | 1.44979 |
| .12130 | 57 | .12100 | 8.26425 | .12190 | 8.20352 | 1.00740 | .99265 | 3 | 1.44950 |
| .12159 | 58 | .12129 | 8.24457 | .12219 | 8.18370 | 1.00744 | .99262 | 2 | 1.44921 |
| .12188 | 59 | .12158 | 8.22500 | .12249 | 8.16398 | 1.00748 | .99259 | 1 | 1.44892 |
| .12217 | 60 | .12187 | 8.20551 | .12278 | 8.14435 | 1.00752 | .99256 | 0 | 1.44863 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

| Arc. | | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .12217 | 0 | .12187 | 8.20551 | .12278 | 8.14435 | 1.00751 | .99255 | 60 | 1.44862 |
| .12246 | 1 | .12216 | 8.18612 | .12308 | 8.12481 | 1.00755 | .99251 | 59 | 1.44833 |
| .12275 | 2 | .12245 | 8.16681 | .12338 | 8.10536 | 1.00758 | .99248 | 58 | 1.44804 |
| .12305 | 3 | .12274 | 8.14760 | .12367 | 8.08600 | 1.00762 | .99244 | 57 | 1.44775 |
| .12334 | 4 | .12302 | 8.12849 | .12397 | 8.06674 | 1.00765 | .99240 | 56 | 1.44746 |
| .12363 | 5 | .12331 | 8.10946 | .12426 | 8.04756 | 1.00769 | .99237 | 55 | 1.44717 |
| .12392 | 6 | .12360 | 8.09052 | .12456 | 8.02848 | 1.00773 | .99233 | 54 | 1.44688 |
| .12421 | 7 | .12389 | 8.07167 | .12485 | 8.00948 | 1.00776 | .99230 | 53 | 1.44659 |
| .12450 | 8 | .12418 | 8.05291 | .12515 | 7.99058 | 1.00780 | .99226 | 52 | 1.44630 |
| .12479 | 9 | .12447 | 8.03423 | .12544 | 7.97176 | 1.00784 | .99222 | 51 | 1.44601 |
| .12508 | 10 | .12476 | 8.01565 | .12574 | 7.95302 | 1.00787 | .99219 | 50 | 1.44571 |
| .12537 | 11 | .12504 | 7.99714 | .12603 | 7.93438 | 1.00791 | .99215 | 49 | 1.44542 |
| .12566 | 12 | .12533 | 7.97873 | .12633 | 7.91582 | 1.00795 | .99211 | 48 | 1.44513 |
| .12595 | 13 | .12562 | 7.96040 | .12662 | 7.89734 | 1.00799 | .99208 | 47 | 1.44484 |
| .12625 | 14 | .12591 | 7.94216 | .12692 | 7.87895 | 1.00802 | .99204 | 46 | 1.44455 |
| .12654 | 15 | .12620 | 7.92399 | .12722 | 7.86064 | 1.00806 | .99200 | 45 | 1.44426 |
| .12683 | 16 | .12649 | 7.90592 | .12751 | 7.84242 | 1.00810 | .99197 | 44 | 1.44397 |
| .12712 | 17 | .12678 | 7.88792 | .12781 | 7.82428 | 1.00813 | .99193 | 43 | 1.44368 |
| .12741 | 18 | .12706 | 7.87001 | .12810 | 7.80622 | 1.00817 | .99189 | 42 | 1.44339 |
| .12770 | 19 | .12735 | 7.85218 | .12840 | 7.78825 | 1.00821 | .99186 | 41 | 1.44310 |
| .12799 | 20 | .12764 | 7.83443 | .12869 | 7.77035 | 1.00825 | .99182 | 40 | 1.44281 |
| .12828 | 21 | .12793 | 7.81677 | .12899 | 7.75254 | 1.00828 | .99178 | 39 | 1.44251 |
| .12857 | 22 | .12822 | 7.79918 | .12929 | 7.73480 | 1.00832 | .99175 | 38 | 1.44222 |
| .12886 | 23 | .12851 | 7.78167 | .12958 | 7.71715 | 1.00836 | .99171 | 37 | 1.44193 |
| .12915 | 24 | .12880 | 7.76424 | .12988 | 7.69957 | 1.00840 | .99167 | 36 | 1.44164 |
| .12945 | 25 | .12908 | 7.74689 | .13017 | 7.68208 | 1.00844 | .99163 | 35 | 1.44135 |
| .12974 | 26 | .12937 | 7.72962 | .13047 | 7.66466 | 1.00848 | .99160 | 34 | 1.44106 |
| .13003 | 27 | .12966 | 7.71242 | .13076 | 7.64732 | 1.00851 | .99156 | 33 | 1.44077 |
| .13032 | 28 | .12995 | 7.69530 | .13106 | 7.63005 | 1.00855 | .99152 | 32 | 1.44048 |
| .13061 | 29 | .13024 | 7.67826 | .13136 | 7.61287 | 1.00859 | .99148 | 31 | 1.44019 |
| .13090 | 30 | .13053 | 7.66130 | .13165 | 7.59575 | 1.00863 | .99144 | 30 | 1.43990 |
| .13119 | 31 | .13081 | 7.64441 | .13195 | 7.57872 | 1.00867 | .99141 | 29 | 1.43961 |
| .13148 | 32 | .13110 | 7.62759 | .13224 | 7.56176 | 1.00871 | .99137 | 28 | 1.43931 |
| .13177 | 33 | .13139 | 7.61085 | .13254 | 7.54487 | 1.00875 | .99133 | 27 | 1.43902 |
| .13206 | 34 | .13168 | 7.59418 | .13284 | 7.52806 | 1.00878 | .99129 | 26 | 1.43873 |
| .13235 | 35 | .13197 | 7.57759 | .13313 | 7.51132 | 1.00882 | .99125 | 25 | 1.43844 |
| .13265 | 36 | .13226 | 7.56107 | .13343 | 7.49465 | 1.00886 | .99122 | 24 | 1.43815 |
| .13294 | 37 | .13254 | 7.54462 | .13372 | 7.47806 | 1.00890 | .99118 | 23 | 1.43786 |
| .13323 | 38 | .13283 | 7.52825 | .13402 | 7.46154 | 1.00894 | .99114 | 22 | 1.43757 |
| .13352 | 39 | .13312 | 7.51194 | .13432 | 7.44509 | 1.00898 | .99110 | 21 | 1.43728 |
| .13381 | 40 | .13341 | 7.49571 | .13461 | 7.42871 | 1.00902 | .99106 | 20 | 1.43699 |
| .13410 | 41 | .13370 | 7.47955 | .13491 | 7.41240 | 1.00906 | .99102 | 19 | 1.43670 |
| .13439 | 42 | .13399 | 7.46346 | .13521 | 7.39616 | 1.00910 | .99098 | 18 | 1.43641 |
| .13468 | 43 | .13427 | 7.44743 | .13550 | 7.37999 | 1.00914 | .99094 | 17 | 1.43612 |
| .13497 | 44 | .13456 | 7.43148 | .13580 | 7.36389 | 1.00918 | .99091 | 16 | 1.43582 |
| .13526 | 45 | .13485 | 7.41560 | .13609 | 7.34786 | 1.00922 | .99087 | 15 | 1.43553 |
| .13555 | 46 | .13514 | 7.39978 | .13639 | 7.33190 | 1.00926 | .99083 | 14 | 1.43524 |
| .13584 | 47 | .13543 | 7.38403 | .13669 | 7.31600 | 1.00930 | .99079 | 13 | 1.43495 |
| .13614 | 48 | .13572 | 7.36835 | .13698 | 7.30018 | 1.00934 | .99075 | 12 | 1.43466 |
| .13643 | 49 | .13600 | 7.35274 | .13728 | 7.28442 | 1.00938 | .99071 | 11 | 1.43437 |
| .13672 | 50 | .13629 | 7.33719 | .13758 | 7.26873 | 1.00942 | .99067 | 10 | 1.43408 |
| .13701 | 51 | .13658 | 7.32171 | .13787 | 7.25310 | 1.00946 | .99063 | 9 | 1.43379 |
| .13730 | 52 | .13687 | 7.30630 | .13817 | 7.23754 | 1.00950 | .99059 | 8 | 1.43350 |
| .13759 | 53 | .13716 | 7.29095 | .13846 | 7.22204 | 1.00954 | .99055 | 7 | 1.43321 |
| .13788 | 54 | .13744 | 7.27566 | .13876 | 7.20661 | 1.00958 | .99051 | 6 | 1.43292 |
| .13817 | 55 | .13773 | 7.26044 | .13906 | 7.19125 | 1.00962 | .99047 | 5 | 1.43262 |
| .13846 | 56 | .13802 | 7.24529 | .13935 | 7.17594 | 1.00966 | .99043 | 4 | 1.43233 |
| .13875 | 57 | .13831 | 7.23019 | .13965 | 7.16071 | 1.00970 | .99039 | 3 | 1.43204 |
| .13904 | 58 | .13860 | 7.21517 | .13995 | 7.14553 | 1.00975 | .99035 | 2 | 1.43175 |
| .13934 | 59 | .13889 | 7.20020 | .14024 | 7.13042 | 1.00979 | .99031 | 1 | 1.43146 |
| .13963 | 60 | .13917 | 7.18530 | .14054 | 7.11537 | 1.00983 | .99027 | 0 | 1.43117 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| I3963 | 0 | .I3917 | 7.18530 | .I4054 | 7.11537 | 1.00983 | .99027 | 60 | I.43117 |
| .I3992 | 1 | .I3946 | 7.17046 | .I4084 | 7.10038 | 1.00987 | .99023 | 59 | I.43088 |
| .I4021 | 2 | .I3975 | 7.15568 | .I4113 | 7.08546 | 1.00991 | .99019 | 58 | I.43059 |
| .I4050 | 3 | .I4004 | 7.14096 | .I4143 | 7.07059 | 1.00995 | .99015 | 57 | I.43030 |
| .I4079 | 4 | .I4033 | 7.12630 | .I4173 | 7.05579 | 1.00999 | .99011 | 56 | I.43001 |
| .I4108 | 5 | .I4061 | 7.11171 | .I4202 | 7.04105 | 1.01004 | .99006 | 55 | I.42972 |
| .I4137 | 6 | .I4090 | 7.09717 | .I4232 | 7.02637 | 1.01008 | .99002 | 54 | I.42942 |
| .I4166 | 7 | .I4119 | 7.08269 | .I4262 | 7.01174 | 1.01012 | .98998 | 53 | I.42913 |
| .I4195 | 8 | .I4148 | 7.06828 | .I4291 | 6.99716 | 1.01016 | .98994 | 52 | I.42884 |
| .I4224 | 9 | .I4177 | 7.05392 | .I4321 | 6.98268 | 1.01020 | .98990 | 51 | I.42855 |
| .I4254 | 10 | .I4205 | 7.03962 | .I4351 | 6.96823 | 1.01024 | .98986 | 50 | I.42826 |
| .I4283 | 11 | .I4234 | 7.02538 | .I4381 | 6.95385 | 1.01029 | .98982 | 49 | I.42797 |
| .I4312 | 12 | .I4263 | 7.01120 | .I4410 | 6.93952 | 1.01033 | .98978 | 48 | I.42768 |
| .I4341 | 13 | .I4292 | 6.99708 | .I4440 | 6.92525 | 1.01037 | .98973 | 47 | I.42739 |
| .I4370 | 14 | .I4320 | 6.98301 | .I4470 | 6.91104 | 1.01041 | .98969 | 46 | I.42710 |
| .I4399 | 15 | .I4349 | 6.96900 | .I4499 | 6.89688 | 1.01046 | .98965 | 45 | I.42681 |
| .I4428 | 16 | .I4378 | 6.95505 | .I4529 | 6.88278 | 1.01050 | .98961 | 44 | I.42652 |
| .I4457 | 17 | .I4407 | 6.94115 | .I4559 | 6.86874 | 1.01054 | .98957 | 43 | I.42622 |
| .I4486 | 18 | .I4436 | 6.92731 | .I4588 | 6.85475 | 1.01059 | .98953 | 42 | I.42593 |
| .I4515 | 19 | .I4464 | 6.91352 | .I4618 | 6.84082 | 1.01063 | .98948 | 41 | I.42564 |
| .I4544 | 20 | .I4493 | 6.89979 | .I4648 | 6.82694 | 1.01067 | .98944 | 40 | I.42535 |
| .I4573 | 21 | .I4522 | 6.88612 | .I4678 | 6.81312 | 1.01071 | .98940 | 39 | I.42506 |
| .I4602 | 22 | .I4551 | 6.87250 | .I4707 | 6.79936 | 1.01076 | .98936 | 38 | I.42477 |
| .I4631 | 23 | .I4580 | 6.85893 | .I4737 | 6.78564 | 1.01080 | .98931 | 37 | I.42448 |
| .I4661 | 24 | .I4608 | 6.84542 | .I4767 | 6.77199 | 1.01084 | .98927 | 36 | I.42419 |
| .I4690 | 25 | .I4637 | 6.83196 | .I4796 | 6.75838 | 1.01089 | .98923 | 35 | I.42390 |
| .I4719 | 26 | .I4666 | 6.81856 | .I4826 | 6.74483 | 1.01093 | .98919 | 34 | I.42361 |
| .I4748 | 27 | .I4695 | 6.80521 | .I4856 | 6.73133 | 1.01097 | .98914 | 33 | I.42332 |
| .I4777 | 28 | .I4723 | 6.79191 | .I4886 | 6.71789 | 1.01102 | .98910 | 32 | I.42303 |
| .I4806 | 29 | .I4752 | 6.77866 | .I4915 | 6.70450 | 1.01106 | .98906 | 31 | I.42273 |
| .I4835 | 30 | .I4781 | 6.76547 | .I4945 | 6.69116 | 1.01111 | .98902 | 30 | I.42244 |
| .I4864 | 31 | .I4810 | 6.75233 | .I4975 | 6.67787 | 1.01115 | .98897 | 29 | I.42215 |
| .I4893 | 32 | .I4838 | 6.73924 | .I5005 | 6.66463 | 1.01119 | .98893 | 28 | I.42186 |
| .I4923 | 33 | .I4867 | 6.72620 | .I5034 | 6.65144 | 1.01124 | .98889 | 27 | I.42157 |
| .I4952 | 34 | .I4896 | 6.71321 | .I5064 | 6.63831 | 1.01128 | .98884 | 26 | I.42128 |
| .I4981 | 35 | .I4925 | 6.70027 | .I5094 | 6.62523 | 1.01133 | .98880 | 25 | I.42099 |
| .I5010 | 36 | .I4954 | 6.68738 | .I5124 | 6.61219 | 1.01137 | .98876 | 24 | I.42070 |
| .I5039 | 37 | .I4982 | 6.67454 | .I5153 | 6.59921 | 1.01142 | .98871 | 23 | I.42041 |
| .I5068 | 38 | .I5011 | 6.66176 | .I5183 | 6.58627 | 1.01146 | .98867 | 22 | I.42012 |
| .I5097 | 39 | .I5040 | 6.64902 | .I5213 | 6.57339 | 1.01151 | .98863 | 21 | I.41983 |
| .I5126 | 40 | .I5069 | 6.63633 | .I5243 | 6.56055 | 1.01155 | .98858 | 20 | I.41953 |
| .I5155 | 41 | .I5097 | 6.62369 | .I5272 | 6.54777 | 1.01160 | .98854 | 19 | I.41924 |
| .I5184 | 42 | .I5126 | 6.61110 | .I5302 | 6.53503 | 1.01164 | .98849 | 18 | I.41895 |
| .I5213 | 43 | .I5155 | 6.59855 | .I5332 | 6.52234 | 1.01169 | .98845 | 17 | I.41866 |
| .I5243 | 44 | .I5184 | 6.58606 | .I5362 | 6.50970 | 1.01173 | .98841 | 16 | I.41837 |
| .I5272 | 45 | .I5212 | 6.57361 | .I5391 | 6.49710 | 1.01178 | .98836 | 15 | I.41808 |
| .I5301 | 46 | .I5241 | 6.56121 | .I5421 | 6.48456 | 1.01182 | .98832 | 14 | I.41779 |
| .I5330 | 47 | .I5270 | 6.54886 | .I5451 | 6.47206 | 1.01187 | .98827 | 13 | I.41750 |
| .I5359 | 48 | .I5299 | 6.53655 | .I5481 | 6.45961 | 1.01191 | .98823 | 12 | I.41721 |
| .I5388 | 49 | .I5327 | 6.52429 | .I5511 | 6.44720 | 1.01196 | .98818 | 11 | I.41692 |
| .I5417 | 50 | .I5356 | 6.51208 | .I5540 | 6.43484 | 1.01200 | .98814 | 10 | I.41663 |
| .I5446 | 51 | .I5385 | 6.49991 | .I5570 | 6.42253 | 1.01205 | .98809 | 9 | I.41633 |
| .I5475 | 52 | .I5414 | 6.48779 | .I5600 | 6.41026 | 1.01209 | .98805 | 8 | I.41604 |
| .I5504 | 53 | .I5442 | 6.47572 | .I5630 | 6.39804 | 1.01214 | .98800 | 7 | I.41575 |
| .I5533 | 54 | .I5471 | 6.46369 | .I5660 | 6.38587 | 1.01219 | .98796 | 6 | I.41546 |
| .I5563 | 55 | .I5500 | 6.45171 | .I5689 | 6.37374 | 1.01223 | .98791 | 5 | I.41517 |
| .I5592 | 56 | .I5529 | 6.43977 | .I5719 | 6.36165 | 1.01228 | .98787 | 4 | I.41488 |
| .I5621 | 57 | .I5557 | 6.42787 | .I5749 | 6.34961 | 1.01233 | .98782 | 3 | I.41459 |
| .I5650 | 58 | .I5586 | 6.41602 | .I5779 | 6.33761 | 1.01237 | .98778 | 2 | I.41430 |
| .I5679 | 59 | .I5615 | 6.40422 | .I5809 | 6.32566 | 1.01242 | .98773 | 1 | I.41401 |
| .I5708 | 60 | .I5643 | 6.39245 | .I5838 | 6.31375 | 1.01247 | .98769 | 0 | I.41372 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .15708 | 0 | .15643 | 6.39245 | .15838 | 6.31375 | 1.01247 | .98769 | 60 | 1.41372 |
| .15737 | 1 | .15672 | 6.38073 | .15868 | 6.30189 | 1.01251 | .98764 | 59 | 1.41343 |
| .15766 | 2 | .15701 | 6.36906 | .15898 | 6.29007 | 1.01256 | .98760 | 58 | 1.41313 |
| .15795 | 3 | .15730 | 6.35743 | .15928 | 6.27829 | 1.01261 | .98755 | 57 | 1.41284 |
| .15824 | 4 | .15758 | 6.34584 | .15958 | 6.26655 | 1.01265 | .98751 | 56 | 1.41255 |
| .15853 | 5 | .15787 | 6.33429 | .15988 | 6.25486 | 1.01270 | .98746 | 55 | 1.41226 |
| .15882 | 6 | .15816 | 6.32279 | .16017 | 6.24321 | 1.01275 | .98741 | 54 | 1.41197 |
| .15912 | 7 | .15845 | 6.31133 | .16047 | 6.23160 | 1.01279 | .98737 | 53 | 1.41168 |
| .15941 | 8 | .15873 | 6.29991 | .16077 | 6.22003 | 1.01284 | .98732 | 52 | 1.41139 |
| .15970 | 9 | .15902 | 6.28853 | .16107 | 6.20851 | 1.01289 | .98728 | 51 | 1.41110 |
| .15999 | 10 | .15931 | 6.27719 | .16137 | 6.19703 | 1.01294 | .98723 | 50 | 1.41081 |
| .16028 | 11 | .15959 | 6.26590 | .16167 | 6.18559 | 1.01298 | .98718 | 49 | 1.41052 |
| .16057 | 12 | .15988 | 6.25464 | .16196 | 6.17419 | 1.01303 | .98714 | 48 | 1.41023 |
| .16086 | 13 | .16017 | 6.24343 | .16226 | 6.16283 | 1.01308 | .98709 | 47 | 1.40994 |
| .16115 | 14 | .16046 | 6.23226 | .16256 | 6.15151 | 1.01313 | .98704 | 46 | 1.40964 |
| .16144 | 15 | .16074 | 6.22113 | .16286 | 6.14023 | 1.01317 | .98700 | 45 | 1.40935 |
| .16173 | 16 | .16103 | 6.21004 | .16316 | 6.12899 | 1.01322 | .98695 | 44 | 1.40906 |
| .16202 | 17 | .16132 | 6.19898 | .16346 | 6.11779 | 1.01327 | .98690 | 43 | 1.40877 |
| .16232 | 18 | .16160 | 6.18797 | .16376 | 6.10664 | 1.01332 | .98686 | 42 | 1.40848 |
| .16261 | 19 | .16189 | 6.17700 | .16405 | 6.09552 | 1.01337 | .98681 | 41 | 1.40819 |
| .16290 | 20 | .16218 | 6.16607 | .16435 | 6.08444 | 1.01342 | .98676 | 40 | 1.40790 |
| .16319 | 21 | .16246 | 6.15517 | .16465 | 6.07340 | 1.01346 | .98671 | 39 | 1.40761 |
| .16348 | 22 | .16275 | 6.14432 | .16495 | 6.06240 | 1.01351 | .98667 | 38 | 1.40732 |
| .16377 | 23 | .16304 | 6.13350 | .16525 | 6.05143 | 1.01356 | .98662 | 37 | 1.40703 |
| .16406 | 24 | .16333 | 6.12273 | .16555 | 6.04051 | 1.01361 | .98657 | 36 | 1.40674 |
| .16435 | 25 | .16361 | 6.11199 | .16585 | 6.02962 | 1.01366 | .98652 | 35 | 1.40644 |
| .16464 | 26 | .16390 | 6.10129 | .16615 | 6.01878 | 1.01371 | .98648 | 34 | 1.40615 |
| .16493 | 27 | .16419 | 6.09062 | .16645 | 6.00797 | 1.01376 | .98643 | 33 | 1.40586 |
| .16522 | 28 | .16447 | 6.08000 | .16674 | 5.99720 | 1.01381 | .98638 | 32 | 1.40557 |
| .16552 | 29 | .16476 | 6.06941 | .16704 | 5.98646 | 1.01386 | .98633 | 31 | 1.40528 |
| .16581 | 30 | .16505 | 6.05886 | .16734 | 5.97576 | 1.01391 | .98629 | 30 | 1.40499 |
| .16610 | 31 | .16533 | 6.04834 | .16764 | 5.96510 | 1.01395 | .98624 | 29 | 1.40470 |
| .16639 | 32 | .16562 | 6.03787 | .16794 | 5.95448 | 1.01400 | .98619 | 28 | 1.40441 |
| .16668 | 33 | .16591 | 6.02743 | .16824 | 5.94390 | 1.01405 | .98614 | 27 | 1.40412 |
| .16697 | 34 | .16620 | 6.01702 | .16854 | 5.93335 | 1.01410 | .98609 | 26 | 1.40383 |
| .16726 | 35 | .16648 | 6.00666 | .16884 | 5.92283 | 1.01415 | .98604 | 25 | 1.40354 |
| .16755 | 36 | .16677 | 5.99633 | .16914 | 5.91236 | 1.01420 | .98600 | 24 | 1.40324 |
| .16784 | 37 | .16706 | 5.98603 | .16944 | 5.90191 | 1.01425 | .98595 | 23 | 1.40295 |
| .16813 | 38 | .16734 | 5.97577 | .16974 | 5.89151 | 1.01430 | .98590 | 22 | 1.40266 |
| .16842 | 39 | .16763 | 5.96555 | .17004 | 5.88114 | 1.01435 | .98585 | 21 | 1.40237 |
| .16872 | 40 | .16792 | 5.95536 | .17033 | 5.87080 | 1.01440 | .98580 | 20 | 1.40208 |
| .16901 | 41 | .16820 | 5.94521 | .17063 | 5.86051 | 1.01445 | .98575 | 19 | 1.40179 |
| .16930 | 42 | .16849 | 5.93509 | .17093 | 5.85024 | 1.01450 | .98570 | 18 | 1.40150 |
| .16959 | 43 | .16878 | 5.92501 | .17123 | 5.84001 | 1.01455 | .98565 | 17 | 1.40121 |
| .16988 | 44 | .16906 | 5.91496 | .17153 | 5.82982 | 1.01461 | .98561 | 16 | 1.40092 |
| .17017 | 45 | .16935 | 5.90495 | .17183 | 5.81966 | 1.01466 | .98556 | 15 | 1.40063 |
| .17046 | 46 | .16964 | 5.89497 | .17213 | 5.80953 | 1.01471 | .98551 | 14 | 1.40034 |
| .17075 | 47 | .16992 | 5.88502 | .17243 | 5.79944 | 1.01476 | .98546 | 13 | 1.40004 |
| .17104 | 48 | .17021 | 5.87511 | .17273 | 5.78938 | 1.01481 | .98541 | 12 | 1.39975 |
| .17133 | 49 | .17050 | 5.86524 | .17303 | 5.77936 | 1.01486 | .98536 | 11 | 1.39946 |
| .17162 | 50 | .17078 | 5.85539 | .17333 | 5.76937 | 1.01491 | .98531 | 10 | 1.39917 |
| .17191 | 51 | .17107 | 5.84558 | .17363 | 5.75941 | 1.01496 | .98526 | 9 | 1.39888 |
| .17221 | 52 | .17136 | 5.83581 | .17393 | 5.74949 | 1.01501 | .98521 | 8 | 1.39859 |
| .17250 | 53 | .17164 | 5.82606 | .17423 | 5.73960 | 1.01506 | .98516 | 7 | 1.39830 |
| .17279 | 54 | .17193 | 5.81635 | .17453 | 5.72974 | 1.01512 | .98511 | 6 | 1.39801 |
| .17308 | 55 | .17222 | 5.80667 | .17483 | 5.71992 | 1.01517 | .98506 | 5 | 1.39772 |
| .17337 | 56 | .17250 | 5.79703 | .17513 | 5.71013 | 1.01522 | .98501 | 4 | 1.39743 |
| .17366 | 57 | .17279 | 5.78742 | .17543 | 5.70037 | 1.01527 | .98496 | 3 | 1.39714 |
| .17395 | 58 | .17308 | 5.77784 | .17573 | 5.69064 | 1.01532 | .98491 | 2 | 1.39685 |
| .17424 | 59 | .17336 | 5.76829 | .17603 | 5.68094 | 1.01537 | .98486 | 1 | 1.39656 |
| .17453 | 60 | .17365 | 5.75877 | .17633 | 5.67126 | 1.01543 | .98481 | 0 | 1.39626 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec | Sin. | | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .17453 | 0 | .17365 | 5.75877 | .17633 | 5.67128 | 1.01543 | .98481 | 60 | 1.39626 |
| .17482 | 1 | .17393 | 5.74929 | .17663 | 5.66165 | 1.01548 | .98476 | 59 | 1.39597 |
| .17511 | 2 | .17422 | 5.73983 | .17693 | 5.65205 | 1.01553 | .98471 | 58 | 1.39568 |
| .17541 | 3 | .17451 | 5.73041 | .17723 | 5.64248 | 1.01558 | .98466 | 57 | 1.39539 |
| .17570 | 4 | .17479 | 5.72102 | .17753 | 5.63295 | 1.01564 | .98461 | 56 | 1.39510 |
| .17599 | 5 | .17508 | 5.71166 | .17783 | 5.62344 | 1.01569 | .98455 | 55 | 1.39481 |
| .17628 | 6 | .17537 | 5.70234 | .17813 | 5.61397 | 1.01574 | .98450 | 54 | 1.39452 |
| .17657 | 7 | .17565 | 5.69304 | .17843 | 5.60452 | 1.01579 | .98445 | 53 | 1.39423 |
| .17686 | 8 | .17594 | 5.68377 | .17873 | 5.59511 | 1.01585 | .98440 | 52 | 1.39394 |
| .17715 | 9 | .17623 | 5.67454 | .17903 | 5.58573 | 1.01590 | .98435 | 51 | 1.39365 |
| .17744 | 10 | .17651 | 5.66533 | .17933 | 5.57638 | 1.01595 | .98430 | 50 | 1.39335 |
| .17773 | 11 | .17680 | 5.65616 | .17963 | 5.56706 | 1.01601 | .98425 | 49 | 1.39306 |
| .17802 | 12 | .17708 | 5.64701 | .17993 | 5.55777 | 1.01606 | .98420 | 48 | 1.39277 |
| .17831 | 13 | .17737 | 5.63790 | .18023 | 5.54851 | 1.01611 | .98414 | 47 | 1.39248 |
| .17861 | 14 | .17766 | 5.62881 | .18053 | 5.53927 | 1.01616 | .98409 | 46 | 1.39219 |
| .17890 | 15 | .17794 | 5.61976 | .18083 | 5.53007 | 1.01622 | .98404 | 45 | 1.39190 |
| .17919 | 16 | .17823 | 5.61073 | .18113 | 5.52090 | 1.01627 | .98399 | 44 | 1.39161 |
| .17948 | 17 | .17852 | 5.60174 | .18143 | 5.51176 | 1.01633 | .98394 | 43 | 1.39132 |
| .17977 | 18 | .17880 | 5.59277 | .18173 | 5.50264 | 1.01638 | .98389 | 42 | 1.39103 |
| .18006 | 19 | .17909 | 5.58383 | .18203 | 5.49356 | 1.01643 | .98383 | 41 | 1.39074 |
| .18035 | 20 | .17937 | 5.57493 | .18233 | 5.48451 | 1.01649 | .98378 | 40 | 1.39045 |
| .18064 | 21 | .17966 | 5.56605 | .18263 | 5.47548 | 1.01654 | .98373 | 39 | 1.39015 |
| .18093 | 22 | .17995 | 5.55720 | .18293 | 5.46648 | 1.01659 | .98368 | 38 | 1.38986 |
| .18122 | 23 | .18023 | 5.54837 | .18323 | 5.45751 | 1.01665 | .98362 | 37 | 1.38957 |
| .18151 | 24 | .18052 | 5.53958 | .18353 | 5.44857 | 1.01670 | .98357 | 36 | 1.38928 |
| .18181 | 25 | .18081 | 5.53081 | .18384 | 5.43966 | 1.01676 | .98352 | 35 | 1.38899 |
| .18210 | 26 | .18109 | 5.52208 | .18414 | 5.43077 | 1.01681 | .98347 | 34 | 1.38870 |
| .18239 | 27 | .18138 | 5.51337 | .18444 | 5.42192 | 1.01687 | .98341 | 33 | 1.38841 |
| .18268 | 28 | .18166 | 5.50468 | .18474 | 5.41309 | 1.01692 | .98336 | 32 | 1.38812 |
| .18297 | 29 | .18195 | 5.49603 | .18504 | 5.40429 | 1.01698 | .98331 | 31 | 1.38783 |
| .18326 | 30 | .18224 | 5.48740 | .18534 | 5.39552 | 1.01703 | .98325 | 30 | 1.38754 |
| .18355 | 31 | .18252 | 5.47881 | .18564 | 5.38677 | 1.01709 | .98320 | 29 | 1.38725 |
| .18384 | 32 | .18281 | 5.47023 | .18594 | 5.37805 | 1.01714 | .98315 | 28 | 1.38695 |
| .18413 | 33 | .18309 | 5.46169 | .18624 | 5.36936 | 1.01720 | .98310 | 27 | 1.38666 |
| .18442 | 34 | .18338 | 5.45317 | .18654 | 5.36070 | 1.01725 | .98304 | 26 | 1.38637 |
| .18471 | 35 | .18367 | 5.44468 | .18684 | 5.35206 | 1.01731 | .98299 | 25 | 1.38608 |
| .18500 | 36 | .18395 | 5.43622 | .18714 | 5.34345 | 1.01736 | .98294 | 24 | 1.38579 |
| .18530 | 37 | .18424 | 5.42778 | .18745 | 5.33487 | 1.01742 | .98288 | 23 | 1.38550 |
| .18559 | 38 | .18452 | 5.41937 | .18775 | 5.32631 | 1.01747 | .98283 | 22 | 1.38521 |
| .18588 | 39 | .18481 | 5.41099 | .18805 | 5.31778 | 1.01753 | .98277 | 21 | 1.38492 |
| .18617 | 40 | .18509 | 5.40263 | .18835 | 5.30928 | 1.01758 | .98272 | 20 | 1.38463 |
| .18646 | 41 | .18538 | 5.39430 | .18865 | 5.30080 | 1.01764 | .98267 | 19 | 1.38434 |
| .18675 | 42 | .18567 | 5.38600 | .18895 | 5.29235 | 1.01769 | .98261 | 18 | 1.38405 |
| .18704 | 43 | .18595 | 5.37772 | .18925 | 5.28393 | 1.01775 | .98256 | 17 | 1.38376 |
| .18733 | 44 | .18624 | 5.36947 | .18955 | 5.27553 | 1.01781 | .98250 | 16 | 1.38346 |
| .18762 | 45 | .18652 | 5.36124 | .18986 | 5.26715 | 1.01786 | .98245 | 15 | 1.38317 |
| .18791 | 46 | .18681 | 5.35304 | .19016 | 5.25880 | 1.01792 | .98240 | 14 | 1.38288 |
| .18820 | 47 | .18710 | 5.34486 | .19046 | 5.25048 | 1.01798 | .98234 | 13 | 1.38259 |
| .18850 | 48 | .18738 | 5.33671 | .19076 | 5.24218 | 1.01803 | .98229 | 12 | 1.38230 |
| .18879 | 49 | .18767 | 5.32859 | .19106 | 5.23391 | 1.01809 | .98223 | 11 | 1.38201 |
| .18908 | 50 | .18795 | 5.32049 | .19136 | 5.22566 | 1.01815 | .98218 | 10 | 1.38172 |
| .18937 | 51 | .18824 | 5.31241 | .19166 | 5.21744 | 1.01820 | .98212 | 9 | 1.38143 |
| .18966 | 52 | .18852 | 5.30436 | .19197 | 5.20925 | 1.01826 | .98207 | 8 | 1.38114 |
| .18995 | 53 | .18881 | 5.29634 | .19227 | 5.20107 | 1.01832 | .98201 | 7 | 1.38085 |
| .19024 | 54 | .18910 | 5.28833 | .19257 | 5.19293 | 1.01837 | .98196 | 6 | 1.38056 |
| .19053 | 55 | .18938 | 5.28036 | .19287 | 5.18480 | 1.01843 | .98190 | 5 | 1.38026 |
| .19082 | 56 | .18967 | 5.27241 | .19317 | 5.17671 | 1.01849 | .98185 | 4 | 1.37997 |
| .19111 | 57 | .18995 | 5.26448 | .19347 | 5.16863 | 1.01854 | .98179 | 3 | 1.37968 |
| .19140 | 58 | .19024 | 5.25658 | .19378 | 5.16058 | 1.01860 | .98174 | 2 | 1.37939 |
| .19170 | 59 | .19052 | 5.24870 | .19408 | 5.15256 | 1.01866 | .98168 | 1 | 1.37910 |
| .19199 | 60 | .19081 | 5.24084 | .19438 | 5.14455 | 1.01872 | .98163 | 0 | 1.37881 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|---------|----|---------|
| .19199 | 0 | .19081 | 5.24084 | .19438 | 5.14455 | 1.01872 | -.98163 | 60 | 1.37881 |
| .19228 | 1 | .19109 | 5.23301 | .19468 | 5.13658 | 1.01877 | -.98157 | 59 | 1.37852 |
| .19257 | 2 | .19138 | 5.22521 | .19496 | 5.12862 | 1.01883 | -.98152 | 58 | 1.37823 |
| .19286 | 3 | .19167 | 5.21742 | .19529 | 5.12069 | 1.01888 | -.98146 | 57 | 1.37794 |
| .19315 | 4 | .19195 | 5.20966 | .19559 | 5.11279 | 1.01895 | -.98140 | 56 | 1.37765 |
| .19344 | 5 | .19224 | 5.20193 | .19589 | 5.10490 | 1.01901 | -.98135 | 55 | 1.37736 |
| .19373 | 6 | .19252 | 5.19421 | .19619 | 5.09704 | 1.01906 | -.98129 | 54 | 1.37706 |
| .19402 | 7 | .19281 | 5.18652 | .19649 | 5.08921 | 1.01912 | -.98124 | 53 | 1.37677 |
| .19431 | 8 | .19309 | 5.17886 | .19680 | 5.08139 | 1.01918 | -.98118 | 52 | 1.37648 |
| .19460 | 9 | .19338 | 5.17121 | .19710 | 5.07360 | 1.01924 | -.98112 | 51 | 1.37619 |
| .19490 | 10 | .19366 | 5.16359 | .19740 | 5.06584 | 1.01930 | -.98107 | 50 | 1.37590 |
| .19519 | 11 | .19395 | 5.15599 | .19770 | 5.05809 | 1.01936 | -.98101 | 49 | 1.37561 |
| .19548 | 12 | .19423 | 5.14842 | .19801 | 5.05037 | 1.01941 | -.98096 | 48 | 1.37532 |
| .19577 | 13 | .19452 | 5.14087 | .19831 | 5.04267 | 1.01947 | -.98090 | 47 | 1.37503 |
| .19606 | 14 | .19481 | 5.13334 | .19861 | 5.03499 | 1.01953 | -.98084 | 46 | 1.37474 |
| .19635 | 15 | .19509 | 5.12583 | .19891 | 5.02734 | 1.01959 | -.98079 | 45 | 1.37445 |
| .19664 | 16 | .19538 | 5.11835 | .19921 | 5.01971 | 1.01965 | -.98073 | 44 | 1.37416 |
| .19693 | 17 | .19566 | 5.11088 | .19952 | 5.01210 | 1.01971 | -.98067 | 43 | 1.37387 |
| .19722 | 18 | .19595 | 5.10344 | .19982 | 5.00451 | 1.01977 | -.98061 | 42 | 1.37357 |
| .19751 | 19 | .19623 | 5.09602 | .20012 | 4.99695 | 1.01983 | -.98056 | 41 | 1.37328 |
| .19780 | 20 | .19652 | 5.08863 | .20042 | 4.98940 | 1.01989 | -.98050 | 40 | 1.37299 |
| .19809 | 21 | .19681 | 5.08125 | .20073 | 4.98188 | 1.01995 | -.98044 | 39 | 1.37270 |
| .19839 | 22 | .19710 | 5.07390 | .20103 | 4.97438 | 1.02001 | -.98039 | 38 | 1.37241 |
| .19868 | 23 | .19737 | 5.06657 | .20133 | 4.96690 | 1.02007 | -.98033 | 37 | 1.37212 |
| .19897 | 24 | .19766 | 5.05926 | .20164 | 4.95945 | 1.02013 | -.98027 | 36 | 1.37183 |
| .19926 | 25 | .19794 | 5.05197 | .20194 | 4.95201 | 1.02019 | -.98021 | 35 | 1.37154 |
| .19955 | 26 | .19823 | 5.04471 | .20224 | 4.94460 | 1.02025 | -.98016 | 34 | 1.37125 |
| .19984 | 27 | .19851 | 5.03746 | .20254 | 4.93721 | 1.02031 | -.98010 | 33 | 1.37096 |
| .20013 | 28 | .19880 | 5.03024 | .20285 | 4.92984 | 1.02037 | -.98004 | 32 | 1.37067 |
| .20042 | 29 | .19908 | 5.02303 | .20315 | 4.92249 | 1.02043 | -.97998 | 31 | 1.37037 |
| .20071 | 30 | .19937 | 5.01585 | .20345 | 4.91515 | 1.02049 | -.97992 | 30 | 1.37008 |
| .20100 | 31 | .19965 | 5.00861 | .20375 | 4.90783 | 1.02055 | -.97987 | 29 | 1.36979 |
| .20129 | 32 | .19994 | 5.00135 | .20406 | 4.90056 | 1.02061 | -.97981 | 28 | 1.36950 |
| .20159 | 33 | .20022 | 4.99443 | .20436 | 4.89330 | 1.02067 | -.97975 | 27 | 1.36921 |
| .20188 | 34 | .20051 | 4.98733 | .20466 | 4.88605 | 1.02073 | -.97969 | 26 | 1.36892 |
| .20217 | 35 | .20079 | 4.98025 | .20497 | 4.87882 | 1.02079 | -.97963 | 25 | 1.36863 |
| .20246 | 36 | .20108 | 4.97320 | .20527 | 4.87162 | 1.02085 | -.97958 | 24 | 1.36834 |
| .20275 | 37 | .20136 | 4.96616 | .20557 | 4.86444 | 1.02091 | -.97952 | 23 | 1.36805 |
| .20304 | 38 | .20165 | 4.95914 | .20588 | 4.85727 | 1.02097 | -.97946 | 22 | 1.36776 |
| .20333 | 39 | .20193 | 4.95215 | .20618 | 4.85013 | 1.02103 | -.97940 | 21 | 1.36747 |
| .20362 | 40 | .20222 | 4.94517 | .20648 | 4.84300 | 1.02110 | -.97934 | 20 | 1.36717 |
| .20391 | 41 | .20250 | 4.93821 | .20679 | 4.83590 | 1.02116 | -.97928 | 19 | 1.36688 |
| .20420 | 42 | .20279 | 4.93128 | .20709 | 4.82882 | 1.02122 | -.97922 | 18 | 1.36659 |
| .20449 | 43 | .20307 | 4.92436 | .20739 | 4.82175 | 1.02128 | -.97916 | 17 | 1.36630 |
| .20479 | 44 | .20336 | 4.91746 | .20770 | 4.81471 | 1.02134 | -.97910 | 16 | 1.36601 |
| .20508 | 45 | .20364 | 4.91058 | .20800 | 4.80769 | 1.02140 | -.97905 | 15 | 1.36572 |
| .20537 | 46 | .20393 | 4.90373 | .20830 | 4.80068 | 1.02146 | -.97899 | 14 | 1.36543 |
| .20566 | 47 | .20421 | 4.89689 | .20861 | 4.79370 | 1.02153 | -.97893 | 13 | 1.36514 |
| .20595 | 48 | .20450 | 4.89007 | .20891 | 4.78673 | 1.02159 | -.97887 | 12 | 1.36485 |
| .20624 | 49 | .20478 | 4.88327 | .20921 | 4.77978 | 1.02165 | -.97881 | 11 | 1.36456 |
| .20653 | 50 | .20507 | 4.87649 | .20952 | 4.77286 | 1.02171 | -.97875 | 10 | 1.36427 |
| .20682 | 51 | .20535 | 4.86973 | .20982 | 4.76595 | 1.02178 | -.97869 | 9 | 1.36397 |
| .20711 | 52 | .20563 | 4.86299 | .21013 | 4.75906 | 1.02184 | -.97863 | 8 | 1.36368 |
| .20740 | 53 | .20592 | 4.85627 | .21043 | 4.75219 | 1.02190 | -.97857 | 7 | 1.36339 |
| .20769 | 54 | .20620 | 4.84956 | .21073 | 4.74534 | 1.02196 | -.97851 | 6 | 1.36310 |
| .20799 | 55 | .20649 | 4.84288 | .21104 | 4.73851 | 1.02203 | -.97845 | 5 | 1.36281 |
| .20828 | 56 | .20677 | 4.83621 | .21134 | 4.73170 | 1.02209 | -.97839 | 4 | 1.36252 |
| .20857 | 57 | .20706 | 4.82956 | .21164 | 4.72490 | 1.02215 | -.97833 | 3 | 1.36223 |
| .20886 | 58 | .20734 | 4.82294 | .21195 | 4.71813 | 1.02221 | -.97827 | 2 | 1.36194 |
| .20915 | 59 | .20763 | 4.81633 | .21225 | 4.71137 | 1.02228 | -.97821 | 1 | 1.36165 |
| .20944 | 60 | .20791 | 4.80973 | .21256 | 4.70463 | 1.02234 | -.97815 | 0 | 1.36136 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .20944 | 0 | .20791 | 4.80973 | .21256 | 4.70463 | 1.02234 | .97815 | 60 | 1.36136 |
| .20973 | 1 | .20820 | 4.80316 | .21286 | 4.69791 | 1.02240 | .97809 | 59 | 1.36107 |
| .21002 | 2 | .20848 | 4.79661 | .21316 | 4.69121 | 1.02247 | .97803 | 58 | 1.36078 |
| .21031 | 3 | .20877 | 4.79007 | .21347 | 4.68452 | 1.02253 | .97797 | 57 | 1.36048 |
| .21060 | 4 | .20905 | 4.78355 | .21377 | 4.67786 | 1.02259 | .97791 | 56 | 1.36019 |
| .21089 | 5 | .20933 | 4.77705 | .21408 | 4.67121 | 1.02266 | .97784 | 55 | 1.35990 |
| .21118 | 6 | .20962 | 4.77057 | .21438 | 4.66458 | 1.02272 | .97778 | 54 | 1.35961 |
| .21148 | 7 | .20990 | 4.76411 | .21469 | 4.65797 | 1.02279 | .97772 | 53 | 1.35932 |
| .21177 | 8 | .21019 | 4.75766 | .21499 | 4.65138 | 1.02285 | .97766 | 52 | 1.35903 |
| .21206 | 9 | .21047 | 4.75123 | .21529 | 4.64480 | 1.02291 | .97760 | 51 | 1.35874 |
| .21235 | 10 | .21076 | 4.74482 | .21560 | 4.63825 | 1.02298 | .97754 | 50 | 1.35845 |
| .21264 | 11 | .21104 | 4.73843 | .21590 | 4.63171 | 1.02304 | .97748 | 49 | 1.35816 |
| .21293 | 12 | .21132 | 4.73205 | .21621 | 4.62518 | 1.02311 | .97742 | 48 | 1.35787 |
| .21322 | 13 | .21161 | 4.72569 | .21651 | 4.61868 | 1.02317 | .97735 | 47 | 1.35758 |
| .21351 | 14 | .21189 | 4.71935 | .21682 | 4.61219 | 1.02323 | .97729 | 46 | 1.35728 |
| .21380 | 15 | .21218 | 4.71303 | .21712 | 4.60572 | 1.02330 | .97723 | 45 | 1.35699 |
| .21409 | 16 | .21246 | 4.70673 | .21743 | 4.59927 | 1.02336 | .97717 | 44 | 1.35670 |
| .21438 | 17 | .21275 | 4.70044 | .21773 | 4.59283 | 1.02343 | .97711 | 43 | 1.35641 |
| .21468 | 18 | .21303 | 4.69417 | .21804 | 4.58641 | 1.02349 | .97705 | 42 | 1.35612 |
| .21497 | 19 | .21331 | 4.68791 | .21834 | 4.58001 | 1.02356 | .97698 | 41 | 1.35583 |
| .21526 | 20 | .21360 | 4.68167 | .21864 | 4.57363 | 1.02362 | .97692 | 40 | 1.35554 |
| .21555 | 21 | .21388 | 4.67545 | .21895 | 4.56726 | 1.02369 | .97686 | 39 | 1.35525 |
| .21584 | 22 | .21417 | 4.66925 | .21925 | 4.56091 | 1.02375 | .97680 | 38 | 1.35496 |
| .21613 | 23 | .21445 | 4.66307 | .21956 | 4.55458 | 1.02382 | .97673 | 37 | 1.35467 |
| .21642 | 24 | .21474 | 4.65690 | .21986 | 4.54826 | 1.02388 | .97667 | 36 | 1.35438 |
| .21671 | 25 | .21502 | 4.65074 | .22017 | 4.54196 | 1.02395 | .97661 | 35 | 1.35408 |
| .21700 | 26 | .21530 | 4.64461 | .22047 | 4.53568 | 1.02402 | .97655 | 34 | 1.35379 |
| .21729 | 27 | .21559 | 4.63849 | .22078 | 4.52941 | 1.02408 | .97648 | 33 | 1.35350 |
| .21758 | 28 | .21587 | 4.63238 | .22108 | 4.52316 | 1.02415 | .97642 | 32 | 1.35321 |
| .21788 | 29 | .21616 | 4.62630 | .22139 | 4.51693 | 1.02421 | .97636 | 31 | 1.35292 |
| .21817 | 30 | .21644 | 4.62023 | .22169 | 4.51071 | 1.02428 | .97630 | 30 | 1.35263 |
| .21846 | 31 | .21672 | 4.61417 | .22200 | 4.50451 | 1.02435 | .97623 | 29 | 1.35234 |
| .21875 | 32 | .21701 | 4.60813 | .22231 | 4.49832 | 1.02441 | .97617 | 28 | 1.35205 |
| .21904 | 33 | .21729 | 4.60211 | .22261 | 4.49215 | 1.02448 | .97611 | 27 | 1.35176 |
| .21933 | 34 | .21758 | 4.59611 | .22292 | 4.48600 | 1.02454 | .97604 | 26 | 1.35147 |
| .21962 | 35 | .21786 | 4.59012 | .22322 | 4.47986 | 1.02461 | .97598 | 25 | 1.35118 |
| .21991 | 36 | .21814 | 4.58414 | .22353 | 4.47374 | 1.02468 | .97592 | 24 | 1.35088 |
| .22020 | 37 | .21843 | 4.57819 | .22383 | 4.46764 | 1.02474 | .97585 | 23 | 1.35059 |
| .22049 | 38 | .21871 | 4.57224 | .22414 | 4.46155 | 1.02481 | .97579 | 22 | 1.35030 |
| .22078 | 39 | .21899 | 4.56632 | .22444 | 4.45548 | 1.02488 | .97573 | 21 | 1.35001 |
| .22108 | 40 | .21928 | 4.56041 | .22475 | 4.44942 | 1.02494 | .97566 | 20 | 1.34972 |
| .22137 | 41 | .21956 | 4.55451 | .22505 | 4.44338 | 1.02501 | .97560 | 19 | 1.34943 |
| .22166 | 42 | .21985 | 4.54863 | .22536 | 4.43735 | 1.02508 | .97553 | 18 | 1.34914 |
| .22195 | 43 | .22013 | 4.54277 | .22567 | 4.43134 | 1.02515 | .97547 | 17 | 1.34885 |
| .22224 | 44 | .22041 | 4.53692 | .22597 | 4.42534 | 1.02521 | .97541 | 16 | 1.34856 |
| .22253 | 45 | .22070 | 4.53109 | .22628 | 4.41936 | 1.02528 | .97534 | 15 | 1.34827 |
| .22282 | 46 | .22098 | 4.52527 | .22658 | 4.41340 | 1.02535 | .97528 | 14 | 1.34798 |
| .22311 | 47 | .22126 | 4.51947 | .22689 | 4.40745 | 1.02542 | .97521 | 13 | 1.34769 |
| .22340 | 48 | .22155 | 4.51368 | .22719 | 4.40152 | 1.02548 | .97515 | 12 | 1.34739 |
| .22369 | 49 | .22183 | 4.50791 | .22750 | 4.39560 | 1.02555 | .97508 | 11 | 1.34710 |
| .22398 | 50 | .22212 | 4.50216 | .22781 | 4.38969 | 1.02562 | .97502 | 10 | 1.34681 |
| .22427 | 51 | .22240 | 4.49642 | .22811 | 4.38381 | 1.02569 | .97496 | 9 | 1.34652 |
| .22457 | 52 | .22268 | 4.49069 | .22842 | 4.37793 | 1.02576 | .97489 | 8 | 1.34623 |
| .22486 | 53 | .22297 | 4.48498 | .22872 | 4.37207 | 1.02582 | .97483 | 7 | 1.34594 |
| .22515 | 54 | .22325 | 4.47928 | .22903 | 4.36623 | 1.02589 | .97476 | 6 | 1.34565 |
| .22544 | 55 | .22353 | 4.47360 | .22934 | 4.36040 | 1.02596 | .97470 | 5 | 1.34536 |
| .22573 | 56 | .22382 | 4.46793 | .22964 | 4.35459 | 1.02603 | .97463 | 4 | 1.34507 |
| .22602 | 57 | .22410 | 4.46228 | .22995 | 4.34879 | 1.02610 | .97457 | 3 | 1.34478 |
| .22631 | 58 | .22438 | 4.45664 | .23026 | 4.34300 | 1.02617 | .97450 | 2 | 1.34449 |
| .22660 | 59 | .22467 | 4.45102 | .23056 | 4.33723 | 1.02624 | .97444 | 1 | 1.34420 |
| .22689 | 60 | .22495 | 4.44541 | .23087 | 4.33146 | 1.02630 | .97437 | 0 | 1.34390 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .22689 | 0 | .22495 | 4.44541 | .23087 | 4.33148 | I.02630 | .97437 | 60 | I.34390 |
| .22718 | 1 | .22523 | 4.43982 | .23117 | 4.32573 | I.02637 | .97430 | 59 | I.34361 |
| .22747 | 2 | .22552 | 4.43424 | .23148 | 4.32001 | I.02644 | .97424 | 58 | I.34332 |
| .22777 | 3 | .22580 | 4.42867 | .23179 | 4.31430 | I.02651 | .97417 | 57 | I.34303 |
| .22806 | 4 | .22608 | 4.42312 | .23209 | 4.30860 | I.02658 | .97411 | 56 | I.34274 |
| .22835 | 5 | .22637 | 4.41759 | .23240 | 4.30291 | I.02665 | .97404 | 55 | I.34245 |
| .22864 | 6 | .22665 | 4.41206 | .23271 | 4.29724 | I.02672 | .97398 | 54 | I.34216 |
| .22893 | 7 | .22693 | 4.40656 | .23301 | 4.29159 | I.02679 | .97391 | 53 | I.34187 |
| .22922 | 8 | .22722 | 4.40106 | .23332 | 4.28595 | I.02686 | .97384 | 52 | I.34158 |
| .22951 | 9 | .22750 | 4.39558 | .23363 | 4.28032 | I.02693 | .97378 | 51 | I.34129 |
| .22980 | 10 | .22778 | 4.39012 | .23393 | 4.27471 | I.02700 | .97371 | 50 | I.34099 |
| .23009 | 11 | .22807 | 4.38466 | .23424 | 4.26911 | I.02707 | .97365 | 49 | I.34070 |
| .23038 | 12 | .22835 | 4.37923 | .23455 | 4.26352 | I.02714 | .97358 | 48 | I.34041 |
| .23067 | 13 | .22863 | 4.37380 | .23485 | 4.25795 | I.02721 | .97351 | 47 | I.34012 |
| .23097 | 14 | .22892 | 4.36839 | .23516 | 4.25239 | I.02728 | .97345 | 46 | I.33983 |
| .23126 | 15 | .22920 | 4.36299 | .23547 | 4.24685 | I.02735 | .97338 | 45 | I.33954 |
| .23155 | 16 | .22948 | 4.35761 | .23578 | 4.24132 | I.02742 | .97331 | 44 | I.33925 |
| .23184 | 17 | .22977 | 4.35224 | .23608 | 4.23580 | I.02749 | .97325 | 43 | I.33896 |
| .23213 | 18 | .23005 | 4.34689 | .23639 | 4.23030 | I.02756 | .97318 | 42 | I.33867 |
| .23242 | 19 | .23033 | 4.34154 | .23670 | 4.22481 | I.02763 | .97311 | 41 | I.33838 |
| .23271 | 20 | .23062 | 4.33622 | .23700 | 4.21933 | I.02770 | .97304 | 40 | I.33809 |
| .23300 | 21 | .23090 | 4.33090 | .23731 | 4.21387 | I.02777 | .97298 | 39 | I.33779 |
| .23329 | 22 | .23118 | 4.32560 | .23762 | 4.20842 | I.02784 | .97291 | 38 | I.33750 |
| .23358 | 23 | .23146 | 4.32031 | .23793 | 4.20298 | I.02791 | .97284 | 37 | I.33721 |
| .23387 | 24 | .23175 | 4.31503 | .23823 | 4.19756 | I.02799 | .97278 | 36 | I.33692 |
| .23417 | 25 | .23203 | 4.30977 | .23854 | 4.19215 | I.02806 | .97271 | 35 | I.33663 |
| .23446 | 26 | .23231 | 4.30452 | .23885 | 4.18675 | I.02813 | .97264 | 34 | I.33634 |
| .23475 | 27 | .23260 | 4.29929 | .23916 | 4.18137 | I.02820 | .97257 | 33 | I.33605 |
| .23504 | 28 | .23288 | 4.29406 | .23946 | 4.17600 | I.02827 | .97251 | 32 | I.33576 |
| .23533 | 29 | .23316 | 4.28885 | .23977 | 4.17064 | I.02834 | .97244 | 31 | I.33547 |
| .23562 | 30 | .23345 | 4.28366 | .24008 | 4.16530 | I.02842 | .97237 | 30 | I.33518 |
| .23591 | 31 | .23373 | 4.27847 | .24039 | 4.15997 | I.02849 | .97230 | 29 | I.33489 |
| .23620 | 32 | .23401 | 4.27330 | .24069 | 4.15465 | I.02856 | .97223 | 28 | I.33460 |
| .23649 | 33 | .23429 | 4.26814 | .24100 | 4.14934 | I.02863 | .97217 | 27 | I.33430 |
| .23678 | 34 | .23458 | 4.26300 | .24131 | 4.14405 | I.02870 | .97210 | 26 | I.33401 |
| .23707 | 35 | .23486 | 4.25787 | .24162 | 4.13877 | I.02878 | .97203 | 25 | I.33372 |
| .23736 | 36 | .23514 | 4.25275 | .24193 | 4.13350 | I.02885 | .97196 | 24 | I.33343 |
| .23766 | 37 | .23542 | 4.24764 | .24223 | 4.12825 | I.02892 | .97189 | 23 | I.33314 |
| .23795 | 38 | .23571 | 4.24255 | .24254 | 4.12301 | I.02899 | .97182 | 22 | I.33285 |
| .23824 | 39 | .23599 | 4.23746 | .24285 | 4.11778 | I.02907 | .97176 | 21 | I.33256 |
| .23853 | 40 | .23627 | 4.23239 | .24316 | 4.11256 | I.02914 | .97169 | 20 | I.33227 |
| .23882 | 41 | .23656 | 4.22734 | .24347 | 4.10736 | I.02921 | .97162 | 19 | I.33198 |
| .23911 | 42 | .23684 | 4.22229 | .24377 | 4.10216 | I.02928 | .97155 | 18 | I.33169 |
| .23940 | 43 | .23712 | 4.21726 | .24408 | 4.09699 | I.02936 | .97148 | 17 | I.33140 |
| .23969 | 44 | .23740 | 4.21224 | .24439 | 4.09182 | I.02943 | .97141 | 16 | I.33110 |
| .23998 | 45 | .23769 | 4.20723 | .24470 | 4.08666 | I.02950 | .97134 | 15 | I.33081 |
| .24027 | 46 | .23797 | 4.20224 | .24501 | 4.08152 | I.02958 | .97127 | 14 | I.33052 |
| .24056 | 47 | .23825 | 4.19725 | .24532 | 4.07639 | I.02965 | .97120 | 13 | I.33023 |
| .24086 | 48 | .23853 | 4.19228 | .24562 | 4.07127 | I.02972 | .97113 | 12 | I.32994 |
| .24115 | 49 | .23882 | 4.18733 | .24593 | 4.06616 | I.02980 | .97106 | 11 | I.32965 |
| .24144 | 50 | .23910 | 4.18238 | .24624 | 4.06107 | I.02987 | .97100 | 10 | I.32936 |
| .24173 | 51 | .23938 | 4.17744 | .24655 | 4.05599 | I.02994 | .97093 | 9 | I.32907 |
| .24202 | 52 | .23966 | 4.17252 | .24686 | 4.05092 | I.03002 | .97086 | 8 | I.32878 |
| .24231 | 53 | .23995 | 4.16761 | .24717 | 4.04586 | I.03009 | .97079 | 7 | I.32849 |
| .24260 | 54 | .24023 | 4.16271 | .24748 | 4.04081 | I.03017 | .97072 | 6 | I.32820 |
| .24289 | 55 | .24051 | 4.15782 | .24778 | 4.03578 | I.03024 | .97065 | 5 | I.32790 |
| .24318 | 56 | .24079 | 4.15295 | .24809 | 4.03076 | I.03032 | .97058 | 4 | I.32761 |
| .24347 | 57 | .24108 | 4.14809 | .24840 | 4.02574 | I.03039 | .97051 | 3 | I.32732 |
| .24376 | 58 | .24136 | 4.14323 | .24871 | 4.02074 | I.03046 | .97044 | 2 | I.32703 |
| .24406 | 59 | .24164 | 4.13839 | .24902 | 4.01576 | I.03054 | .97037 | 1 | I.32674 |
| .24435 | 60 | .24192 | 4.13357 | .24933 | 4.01077 | I.03061 | .97030 | 0 | I.32645 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .24435 | 0 | .24192 | 4.13357 | .24933 | 4.01078 | 1.03061 | .97030 | 60 | 1.32645 |
| .24464 | 1 | .24220 | 4.12875 | .24964 | 4.00582 | 1.03069 | .97023 | 59 | 1.32616 |
| .24493 | 2 | .24249 | 4.12394 | .24995 | 4.00086 | 1.03076 | .97015 | 58 | 1.32587 |
| .24522 | 3 | .24277 | 4.11915 | .25026 | 3.99592 | 1.03084 | .97008 | 57 | 1.32558 |
| .24551 | 4 | .24305 | 4.11437 | .25056 | 3.99099 | 1.03091 | .97001 | 56 | 1.32529 |
| .24580 | 5 | .24333 | 4.10960 | .25087 | 3.98607 | 1.03099 | .96994 | 55 | 1.32500 |
| .24609 | 6 | .24362 | 4.10484 | .25118 | 3.98117 | 1.03106 | .96987 | 54 | 1.32471 |
| .24638 | 7 | .24390 | 4.10009 | .25149 | 3.97627 | 1.03114 | .96980 | 53 | 1.32441 |
| .24667 | 8 | .24418 | 4.09535 | .25180 | 3.97139 | 1.03121 | .96973 | 52 | 1.32412 |
| .24696 | 9 | .24446 | 4.09063 | .25211 | 3.96651 | 1.03129 | .96966 | 51 | 1.32383 |
| .24725 | 10 | .24474 | 4.08591 | .25242 | 3.96165 | 1.03137 | .96959 | 50 | 1.32354 |
| .24755 | 11 | .24503 | 4.08121 | .25273 | 3.95680 | 1.03144 | .96952 | 49 | 1.32325 |
| .24784 | 12 | .24531 | 4.07652 | .25304 | 3.95196 | 1.03152 | .96945 | 48 | 1.32296 |
| .24813 | 13 | .24559 | 4.07184 | .25335 | 3.94713 | 1.03159 | .96937 | 47 | 1.32267 |
| .24842 | 14 | .24587 | 4.06717 | .25366 | 3.94232 | 1.03167 | .96930 | 46 | 1.32238 |
| .24871 | 15 | .24615 | 4.06251 | .25397 | 3.93751 | 1.03175 | .96923 | 45 | 1.32209 |
| .24900 | 16 | .24644 | 4.05786 | .25428 | 3.93271 | 1.03182 | .96916 | 44 | 1.32180 |
| .24929 | 17 | .24672 | 4.05322 | .25459 | 3.92793 | 1.03190 | .96909 | 43 | 1.32151 |
| .24958 | 18 | .24700 | 4.04860 | .25490 | 3.92316 | 1.03197 | .96902 | 42 | 1.32121 |
| .24987 | 19 | .24728 | 4.04398 | .25521 | 3.91839 | 1.03205 | .96894 | 41 | 1.32092 |
| .25016 | 20 | .24756 | 4.03938 | .25552 | 3.91364 | 1.03213 | .96887 | 40 | 1.32063 |
| .25045 | 21 | .24784 | 4.03479 | .25583 | 3.90890 | 1.03220 | .96880 | 39 | 1.32034 |
| .25075 | 22 | .24813 | 4.03020 | .25614 | 3.90417 | 1.03228 | .96873 | 38 | 1.32005 |
| .25104 | 23 | .24841 | 4.02563 | .25645 | 3.89945 | 1.03236 | .96866 | 37 | 1.31976 |
| .25133 | 24 | .24869 | 4.02107 | .25676 | 3.89474 | 1.03244 | .96858 | 36 | 1.31947 |
| .25162 | 25 | .24897 | 4.01652 | .25707 | 3.89004 | 1.03251 | .96851 | 35 | 1.31918 |
| .25191 | 26 | .24925 | 4.01198 | .25738 | 3.88536 | 1.03259 | .96844 | 34 | 1.31889 |
| .25220 | 27 | .24954 | 4.00745 | .25769 | 3.88068 | 1.03267 | .96837 | 33 | 1.31860 |
| .25249 | 28 | .24982 | 4.00293 | .25800 | 3.87601 | 1.03275 | .96829 | 32 | 1.31831 |
| .25278 | 29 | .25010 | 3.99843 | .25831 | 3.87136 | 1.03282 | .96822 | 31 | 1.31801 |
| .25307 | 30 | .25038 | 3.99393 | .25862 | 3.86671 | 1.03290 | .96815 | 30 | 1.31772 |
| .25336 | 31 | .25066 | 3.98944 | .25893 | 3.86208 | 1.03298 | .96807 | 29 | 1.31743 |
| .25365 | 32 | .25094 | 3.98497 | .25924 | 3.85745 | 1.03306 | .96800 | 28 | 1.31714 |
| .25395 | 33 | .25122 | 3.98050 | .25955 | 3.85284 | 1.03313 | .96793 | 27 | 1.31685 |
| .25424 | 34 | .25151 | 3.97604 | .25986 | 3.84824 | 1.03321 | .96786 | 26 | 1.31656 |
| .25453 | 35 | .25179 | 3.97160 | .26017 | 3.84364 | 1.03329 | .96778 | 25 | 1.31627 |
| .25482 | 36 | .25207 | 3.96716 | .26048 | 3.83906 | 1.03337 | .96771 | 24 | 1.31598 |
| .25511 | 37 | .25235 | 3.96274 | .26079 | 3.83449 | 1.03345 | .96764 | 23 | 1.31569 |
| .25540 | 38 | .25263 | 3.95832 | .26110 | 3.82992 | 1.03353 | .96756 | 22 | 1.31540 |
| .25569 | 39 | .25291 | 3.95392 | .26141 | 3.82537 | 1.03360 | .96749 | 21 | 1.31511 |
| .25598 | 40 | .25320 | 3.94952 | .26172 | 3.82083 | 1.03368 | .96742 | 20 | 1.31481 |
| .25627 | 41 | .25348 | 3.94512 | .26203 | 3.81629 | 1.03376 | .96734 | 19 | 1.31452 |
| .25656 | 42 | .25376 | 3.94076 | .26235 | 3.81177 | 1.03384 | .96727 | 18 | 1.31423 |
| .25685 | 43 | .25404 | 3.93640 | .26266 | 3.80726 | 1.03392 | .96719 | 17 | 1.31394 |
| .25715 | 44 | .25432 | 3.93204 | .26297 | 3.80276 | 1.03400 | .96712 | 16 | 1.31365 |
| .25744 | 45 | .25460 | 3.92770 | .26328 | 3.79827 | 1.03408 | .96705 | 15 | 1.31336 |
| .25773 | 46 | .25488 | 3.92337 | .26359 | 3.79378 | 1.03416 | .96697 | 14 | 1.31307 |
| .25802 | 47 | .25516 | 3.91904 | .26390 | 3.78931 | 1.03424 | .96690 | 13 | 1.31278 |
| .25831 | 48 | .25545 | 3.91473 | .26421 | 3.78485 | 1.03432 | .96682 | 12 | 1.31249 |
| .25860 | 49 | .25573 | 3.91042 | .26452 | 3.78040 | 1.03439 | .96675 | 11 | 1.31220 |
| .25889 | 50 | .25601 | 3.90613 | .26483 | 3.77595 | 1.03447 | .96667 | 10 | 1.31191 |
| .25918 | 51 | .25629 | 3.90184 | .26515 | 3.77152 | 1.03455 | .96660 | 9 | 1.31161 |
| .25947 | 52 | .25657 | 3.89756 | .26546 | 3.76709 | 1.03463 | .96653 | 8 | 1.31132 |
| .25976 | 53 | .25685 | 3.89330 | .26577 | 3.76268 | 1.03471 | .96645 | 7 | 1.31103 |
| .26005 | 54 | .25713 | 3.88904 | .26608 | 3.75828 | 1.03479 | .96638 | 6 | 1.31074 |
| .26034 | 55 | .25741 | 3.88479 | .26639 | 3.75388 | 1.03487 | .96630 | 5 | 1.31045 |
| .26064 | 56 | .25769 | 3.88056 | .26670 | 3.74950 | 1.03495 | .96623 | 4 | 1.31016 |
| .26093 | 57 | .25798 | 3.87633 | .26701 | 3.74512 | 1.03503 | .96615 | 3 | 1.30987 |
| .26122 | 58 | .25826 | 3.87211 | .26733 | 3.74075 | 1.03511 | .96608 | 2 | 1.30958 |
| .26151 | 59 | .25854 | 3.86790 | .26764 | 3.73640 | 1.03519 | .96600 | 1 | 1.30929 |
| .26180 | 60 | .25882 | 3.86370 | .26795 | 3.73205 | 1.03527 | .96592 | 0 | 1.30900 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .26180 | 0 | .25882 | 3.86370 | .26795 | 3.73205 | 1.03528 | .96593 | 60 | 1.30900 |
| .26209 | 1 | .25910 | 3.85951 | .26826 | 3.72771 | 1.03536 | .96585 | 59 | 1.30871 |
| .26238 | 2 | .25938 | 3.85533 | .26857 | 3.72338 | 1.03544 | .96578 | 58 | 1.30842 |
| .26267 | 3 | .25966 | 3.85116 | .26888 | 3.71907 | 1.03552 | .96570 | 57 | 1.30812 |
| .26296 | 4 | .25994 | 3.84700 | .26920 | 3.71476 | 1.03560 | .96562 | 56 | 1.30783 |
| .26325 | 5 | .26022 | 3.84285 | .26951 | 3.71046 | 1.03568 | .96555 | 55 | 1.30754 |
| .26354 | 6 | .26050 | 3.83871 | .26982 | 3.70616 | 1.03576 | .96547 | 54 | 1.30725 |
| .26384 | 7 | .26079 | 3.83457 | .27013 | 3.70188 | 1.03584 | .96540 | 53 | 1.30696 |
| .26413 | 8 | .26107 | 3.83045 | .27044 | 3.69761 | 1.03592 | .96532 | 52 | 1.30667 |
| .26442 | 9 | .26135 | 3.82633 | .27076 | 3.69335 | 1.03601 | .96524 | 51 | 1.30638 |
| .26471 | 10 | .26163 | 3.82223 | .27107 | 3.68909 | 1.03609 | .96517 | 50 | 1.30609 |
| .26500 | 11 | .26191 | 3.81813 | .27138 | 3.68485 | 1.03617 | .96509 | 49 | 1.30580 |
| .26529 | 12 | .26219 | 3.81404 | .27169 | 3.68061 | 1.03625 | .96502 | 48 | 1.30551 |
| .26558 | 13 | .26247 | 3.80996 | .27201 | 3.67638 | 1.03633 | .96494 | 47 | 1.30522 |
| .26587 | 14 | .26275 | 3.80589 | .27232 | 3.67217 | 1.03642 | .96486 | 46 | 1.30492 |
| .26616 | 15 | .26303 | 3.80183 | .27263 | 3.66796 | 1.03650 | .96479 | 45 | 1.30463 |
| .26645 | 16 | .26331 | 3.79778 | .27294 | 3.66376 | 1.03658 | .96471 | 44 | 1.30434 |
| .26674 | 17 | .26359 | 3.79373 | .27326 | 3.65957 | 1.03666 | .96463 | 43 | 1.30405 |
| .26704 | 18 | .26387 | 3.78970 | .27357 | 3.65538 | 1.03674 | .96456 | 42 | 1.30376 |
| .26733 | 19 | .26415 | 3.78568 | .27388 | 3.65121 | 1.03683 | .96448 | 41 | 1.30347 |
| .26762 | 20 | .26443 | 3.78166 | .27419 | 3.64705 | 1.03691 | .96440 | 40 | 1.30318 |
| .26791 | 21 | .26471 | 3.77765 | .27451 | 3.64289 | 1.03699 | .96433 | 39 | 1.30289 |
| .26820 | 22 | .26500 | 3.77365 | .27482 | 3.63874 | 1.03708 | .96425 | 38 | 1.30260 |
| .26849 | 23 | .26528 | 3.76966 | .27513 | 3.63461 | 1.03716 | .96417 | 37 | 1.30231 |
| .26878 | 24 | .26556 | 3.76568 | .27545 | 3.63048 | 1.03724 | .96410 | 36 | 1.30202 |
| .26907 | 25 | .26584 | 3.76171 | .27576 | 3.62636 | 1.03732 | .96402 | 35 | 1.30172 |
| .26936 | 26 | .26612 | 3.75775 | .27607 | 3.62224 | 1.03741 | .96394 | 34 | 1.30143 |
| .26965 | 27 | .26640 | 3.75379 | .27638 | 3.61814 | 1.03749 | .96386 | 33 | 1.30114 |
| .26994 | 28 | .26668 | 3.74984 | .27670 | 3.61405 | 1.03757 | .96379 | 32 | 1.30085 |
| .27024 | 29 | .26696 | 3.74591 | .27701 | 3.60996 | 1.03766 | .96371 | 31 | 1.30056 |
| .27053 | 30 | .26724 | 3.74198 | .27732 | 3.60588 | 1.03774 | .96363 | 30 | 1.30027 |
| .27082 | 31 | .26752 | 3.73806 | .27764 | 3.60181 | 1.03783 | .96355 | 29 | 1.29998 |
| .27111 | 32 | .26780 | 3.73414 | .27795 | 3.59775 | 1.03791 | .96347 | 28 | 1.29969 |
| .27140 | 33 | .26808 | 3.73024 | .27826 | 3.59370 | 1.03799 | .96340 | 27 | 1.29940 |
| .27169 | 34 | .26836 | 3.72635 | .27858 | 3.58966 | 1.03808 | .96332 | 26 | 1.29911 |
| .27198 | 35 | .26864 | 3.72246 | .27889 | 3.58562 | 1.03816 | .96324 | 25 | 1.29882 |
| .27227 | 36 | .26892 | 3.71858 | .27921 | 3.58160 | 1.03825 | .96316 | 24 | 1.29853 |
| .27256 | 37 | .26920 | 3.71471 | .27952 | 3.57758 | 1.03833 | .96308 | 23 | 1.29823 |
| .27285 | 38 | .26948 | 3.71085 | .27983 | 3.57357 | 1.03842 | .96301 | 22 | 1.29794 |
| .27314 | 39 | .26976 | 3.70700 | .28015 | 3.56957 | 1.03850 | .96293 | 21 | 1.29765 |
| .27343 | 40 | .27004 | 3.70315 | .28046 | 3.56557 | 1.03858 | .96285 | 20 | 1.29736 |
| .27373 | 41 | .27032 | 3.69931 | .28077 | 3.56159 | 1.03867 | .96277 | 19 | 1.29707 |
| .27402 | 42 | .27060 | 3.69549 | .28109 | 3.55761 | 1.03875 | .96269 | 18 | 1.29678 |
| .27431 | 43 | .27088 | 3.69167 | .28140 | 3.55364 | 1.03884 | .96261 | 17 | 1.29649 |
| .27460 | 44 | .27116 | 3.68785 | .28172 | 3.54968 | 1.03892 | .96253 | 16 | 1.29620 |
| .27489 | 45 | .27144 | 3.68405 | .28203 | 3.54573 | 1.03901 | .96246 | 15 | 1.29591 |
| .27518 | 46 | .27172 | 3.68025 | .28234 | 3.54179 | 1.03909 | .96238 | 14 | 1.29562 |
| .27547 | 47 | .27200 | 3.67647 | .28266 | 3.53785 | 1.03918 | .96230 | 13 | 1.29533 |
| .27576 | 48 | .27228 | 3.67269 | .28297 | 3.53393 | 1.03927 | .96222 | 12 | 1.29503 |
| .27605 | 49 | .27256 | 3.66892 | .28329 | 3.53001 | 1.03935 | .96214 | 11 | 1.29474 |
| .27634 | 50 | .27284 | 3.66515 | .28360 | 3.52609 | 1.03944 | .96206 | 10 | 1.29445 |
| .27663 | 51 | .27312 | 3.66140 | .28391 | 3.52219 | 1.03952 | .96198 | 9 | 1.29416 |
| .27693 | 52 | .27340 | 3.65765 | .28423 | 3.51829 | 1.03961 | .96190 | 8 | 1.29387 |
| .27722 | 53 | .27368 | 3.65391 | .28454 | 3.51441 | 1.03969 | .96182 | 7 | 1.29358 |
| .27751 | 54 | .27396 | 3.65018 | .28486 | 3.51053 | 1.03978 | .96174 | 6 | 1.29329 |
| .27780 | 55 | .27424 | 3.64645 | .28517 | 3.50666 | 1.03987 | .96166 | 5 | 1.29300 |
| .27809 | 56 | .27452 | 3.64274 | .28549 | 3.50279 | 1.03995 | .96158 | 4 | 1.29271 |
| .27838 | 57 | .27480 | 3.63903 | .28580 | 3.49894 | 1.04004 | .96150 | 3 | 1.29242 |
| .27867 | 58 | .27508 | 3.63533 | .28612 | 3.49509 | 1.04013 | .96142 | 2 | 1.29213 |
| .27896 | 59 | .27536 | 3.63164 | .28643 | 3.49125 | 1.04021 | .96134 | 1 | 1.29183 |
| .27925 | 60 | .27564 | 3.62796 | .28675 | 3.48741 | 1.04030 | .96126 | 0 | 1.29154 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .27925 | 0 | .27564 | 3.62796 | .28675 | 3.48741 | I.04030 | .96126 | 60 | I.29154 |
| .27954 | 1 | .27592 | 3.62428 | .28706 | 3.48359 | I.04039 | .96118 | 59 | I.29125 |
| .27983 | 2 | .27620 | 3.62061 | .28738 | 3.47977 | I.04047 | .96110 | 58 | I.29096 |
| .28013 | 3 | .27648 | 3.61695 | .28769 | 3.47596 | I.04056 | .96102 | 57 | I.29067 |
| .28042 | 4 | .27676 | 3.61330 | .28801 | 3.47216 | I.04065 | .96094 | 56 | I.29038 |
| .28071 | 5 | .27704 | 3.60965 | .28832 | 3.46837 | I.04073 | .96086 | 55 | I.29009 |
| .28100 | 6 | .27731 | 3.60601 | .28864 | 3.46458 | I.04082 | .96078 | 54 | I.28980 |
| .28129 | 7 | .27759 | 3.60238 | .28895 | 3.46080 | I.04091 | .96070 | 53 | I.28951 |
| .28158 | 8 | .27787 | 3.59876 | .28927 | 3.45703 | I.04100 | .96062 | 52 | I.28922 |
| .28187 | 9 | .27815 | 3.59514 | .28958 | 3.45327 | I.04108 | .96054 | 51 | I.28893 |
| .28216 | 10 | .27843 | 3.59154 | .28990 | 3.44951 | I.04117 | .96046 | 50 | I.28864 |
| .28245 | 11 | .27871 | 3.58794 | .29021 | 3.44576 | I.04126 | .96037 | 49 | I.28834 |
| .28274 | 12 | .27899 | 3.58434 | .29053 | 3.44202 | I.04135 | .96029 | 48 | I.28805 |
| .28303 | 13 | .27927 | 3.58076 | .29084 | 3.43829 | I.04144 | .96021 | 47 | I.28776 |
| .28333 | 14 | .27955 | 3.57718 | .29116 | 3.43456 | I.04152 | .96013 | 46 | I.28747 |
| .28362 | 15 | .27983 | 3.57361 | .29147 | 3.43084 | I.04161 | .96005 | 45 | I.28718 |
| .28391 | 16 | .28011 | 3.57005 | .29179 | 3.42713 | I.04170 | .95997 | 44 | I.28689 |
| .28420 | 17 | .28039 | 3.56649 | .29210 | 3.42343 | I.04179 | .95989 | 43 | I.28660 |
| .28449 | 18 | .28067 | 3.56294 | .29242 | 3.41973 | I.04188 | .95981 | 42 | I.28631 |
| .28478 | 19 | .28095 | 3.55940 | .29274 | 3.41604 | I.04197 | .95972 | 41 | I.28602 |
| .28507 | 20 | .28123 | 3.55587 | .29305 | 3.41236 | I.04206 | .95964 | 40 | I.28573 |
| .28536 | 21 | .28150 | 3.55234 | .29337 | 3.40869 | I.04214 | .95956 | 39 | I.28543 |
| .28565 | 22 | .28178 | 3.54883 | .29368 | 3.40502 | I.04223 | .95948 | 38 | I.28514 |
| .28594 | 23 | .28206 | 3.54531 | .29400 | 3.40136 | I.04232 | .95940 | 37 | I.28485 |
| .28623 | 24 | .28234 | 3.54181 | .29432 | 3.39771 | I.04241 | .95931 | 36 | I.28456 |
| .28652 | 25 | .28262 | 3.53831 | .29463 | 3.39406 | I.04250 | .95923 | 35 | I.28427 |
| .28682 | 26 | .28290 | 3.53482 | .29495 | 3.39042 | I.04259 | .95915 | 34 | I.28398 |
| .28711 | 27 | .28318 | 3.53134 | .29526 | 3.38679 | I.04268 | .95907 | 33 | I.28369 |
| .28740 | 28 | .28346 | 3.52787 | .29558 | 3.38317 | I.04277 | .95898 | 32 | I.28340 |
| .28769 | 29 | .28374 | 3.52440 | .29590 | 3.37955 | I.04286 | .95890 | 31 | I.28311 |
| .28798 | 30 | .28402 | 3.52094 | .29621 | 3.37594 | I.04295 | .95882 | 30 | I.28282 |
| .28827 | 31 | .28429 | 3.51748 | .29653 | 3.37234 | I.04304 | .95874 | 29 | I.28253 |
| .28856 | 32 | .28457 | 3.51404 | .29685 | 3.36875 | I.04313 | .95865 | 28 | I.28224 |
| .28885 | 33 | .28485 | 3.51060 | .29716 | 3.36516 | I.04322 | .95857 | 27 | I.28194 |
| .28914 | 34 | .28513 | 3.50716 | .29748 | 3.36158 | I.04331 | .95849 | 26 | I.28165 |
| .28943 | 35 | .28541 | 3.50374 | .29780 | 3.35800 | I.04340 | .95841 | 25 | I.28136 |
| .28972 | 36 | .28569 | 3.50032 | .29811 | 3.35443 | I.04349 | .95832 | 24 | I.28107 |
| .29002 | 37 | .28597 | 3.49691 | .29843 | 3.35087 | I.04358 | .95824 | 23 | I.28078 |
| .29031 | 38 | .28625 | 3.49350 | .29875 | 3.34732 | I.04367 | .95816 | 22 | I.28049 |
| .29060 | 39 | .28653 | 3.49010 | .29906 | 3.34377 | I.04376 | .95807 | 21 | I.28020 |
| .29089 | 40 | .28681 | 3.48671 | .29938 | 3.34023 | I.04385 | .95799 | 20 | I.27991 |
| .29118 | 41 | .28709 | 3.48333 | .29970 | 3.33670 | I.04394 | .95791 | 19 | I.27962 |
| .29147 | 42 | .28736 | 3.47995 | .30001 | 3.33317 | I.04403 | .95782 | 18 | I.27933 |
| .29176 | 43 | .28764 | 3.47658 | .30033 | 3.32965 | I.04413 | .95774 | 17 | I.27904 |
| .29205 | 44 | .28792 | 3.47321 | .30065 | 3.32614 | I.04422 | .95766 | 16 | I.27874 |
| .29234 | 45 | .28820 | 3.46986 | .30097 | 3.32264 | I.04431 | .95757 | 15 | I.27845 |
| .29263 | 46 | .28847 | 3.46651 | .30128 | 3.31914 | I.04440 | .95749 | 14 | I.27816 |
| .29292 | 47 | .28875 | 3.46316 | .30160 | 3.31565 | I.04449 | .95740 | 13 | I.27787 |
| .29322 | 48 | .28903 | 3.45983 | .30192 | 3.31216 | I.04458 | .95732 | 12 | I.27758 |
| .29351 | 49 | .28931 | 3.45650 | .30224 | 3.30868 | I.04468 | .95724 | 11 | I.27729 |
| .29380 | 50 | .28959 | 3.45317 | .30255 | 3.30521 | I.04477 | .95715 | 10 | I.27700 |
| .29409 | 51 | .28987 | 3.44986 | .30287 | 3.30174 | I.04486 | .95707 | 9 | I.27671 |
| .29438 | 52 | .29015 | 3.44655 | .30319 | 3.29829 | I.04495 | .95698 | 8 | I.27642 |
| .29467 | 53 | .29042 | 3.44324 | .30351 | 3.29483 | I.04504 | .95690 | 7 | I.27613 |
| .29496 | 54 | .29070 | 3.43995 | .30382 | 3.29139 | I.04514 | .95681 | 6 | I.27584 |
| .29525 | 55 | .29098 | 3.43666 | .30414 | 3.28795 | I.04523 | .95673 | 5 | I.27555 |
| .29554 | 56 | .29126 | 3.43337 | .30446 | 3.28452 | I.04532 | .95664 | 4 | I.27525 |
| .29583 | 57 | .29154 | 3.43010 | .30478 | 3.28109 | I.04541 | .95656 | 3 | I.27496 |
| .29612 | 58 | .29182 | 3.42683 | .30509 | 3.27767 | I.04551 | .95647 | 2 | I.27467 |
| .29642 | 59 | .29209 | 3.42356 | .30541 | 3.27426 | I.04560 | .95639 | 1 | I.27438 |
| .29671 | 60 | .29237 | 3.42030 | .30573 | 3.27085 | I.04569 | .95630 | 0 | I.27409 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .29671 | 0 | .29237 | 3.42030 | .30573 | 3.27085 | 1.04569 | .95630 | 60 | 1.27409 |
| .29700 | 1 | .29265 | 3.41705 | .30605 | 3.26745 | 1.04578 | .95622 | 59 | 1.27380 |
| .29729 | 2 | .29293 | 3.41381 | .30637 | 3.26406 | 1.04588 | .95613 | 58 | 1.27351 |
| .29758 | 3 | .29321 | 3.41057 | .30669 | 3.26067 | 1.04597 | .95605 | 57 | 1.27322 |
| .29787 | 4 | .29348 | 3.40734 | .30700 | 3.25729 | 1.04606 | .95596 | 56 | 1.27293 |
| .29816 | 5 | .29376 | 3.40411 | .30732 | 3.25392 | 1.04616 | .95588 | 55 | 1.27264 |
| .29845 | 6 | .29404 | 3.40089 | .30764 | 3.25055 | 1.04625 | .95579 | 54 | 1.27235 |
| .29874 | 7 | .29432 | 3.39768 | .30796 | 3.24719 | 1.04635 | .95571 | 53 | 1.27205 |
| .29903 | 8 | .29460 | 3.39448 | .30828 | 3.24383 | 1.04644 | .95562 | 52 | 1.27176 |
| .29932 | 9 | .29487 | 3.39128 | .30860 | 3.24049 | 1.04653 | .95554 | 51 | 1.27147 |
| .29961 | 10 | .29515 | 3.38808 | .30891 | 3.23714 | 1.04663 | .95545 | 50 | 1.27118 |
| .29991 | 11 | .29543 | 3.38489 | .30923 | 3.23381 | 1.04672 | .95536 | 49 | 1.27089 |
| .30020 | 12 | .29571 | 3.38171 | .30955 | 3.23048 | 1.04682 | .95528 | 48 | 1.27060 |
| .30049 | 13 | .29599 | 3.37854 | .30987 | 3.22715 | 1.04691 | .95519 | 47 | 1.27031 |
| .30078 | 14 | .29626 | 3.37537 | .31019 | 3.22384 | 1.04700 | .95511 | 46 | 1.27002 |
| .30107 | 15 | .29654 | 3.37221 | .31051 | 3.22053 | 1.04710 | .95502 | 45 | 1.26973 |
| .30136 | 16 | .29682 | 3.36905 | .31083 | 3.21722 | 1.04719 | .95493 | 44 | 1.26944 |
| .30165 | 17 | .29710 | 3.36590 | .31115 | 3.21392 | 1.04729 | .95485 | 43 | 1.26915 |
| .30194 | 18 | .29737 | 3.36276 | .31147 | 3.21063 | 1.04738 | .95476 | 42 | 1.26885 |
| .30223 | 19 | .29765 | 3.35962 | .31178 | 3.20734 | 1.04748 | .95467 | 41 | 1.26856 |
| .30252 | 20 | .29793 | 3.35649 | .31210 | 3.20406 | 1.04757 | .95459 | 40 | 1.26827 |
| .30281 | 21 | .29821 | 3.35336 | .31242 | 3.20079 | 1.04767 | .95450 | 39 | 1.26798 |
| .30311 | 22 | .29849 | 3.35023 | .31274 | 3.19752 | 1.04776 | .95441 | 38 | 1.26769 |
| .30340 | 23 | .29876 | 3.34713 | .31306 | 3.19426 | 1.04786 | .95433 | 37 | 1.26740 |
| .30369 | 24 | .29904 | 3.34403 | .31338 | 3.19100 | 1.04795 | .95424 | 36 | 1.26711 |
| .30398 | 25 | .29932 | 3.34092 | .31370 | 3.18775 | 1.04805 | .95415 | 35 | 1.26682 |
| .30427 | 26 | .29960 | 3.33783 | .31402 | 3.18451 | 1.04815 | .95407 | 34 | 1.26653 |
| .30456 | 27 | .29987 | 3.33474 | .31434 | 3.18127 | 1.04824 | .95398 | 33 | 1.26624 |
| .30485 | 28 | .30015 | 3.33166 | .31466 | 3.17804 | 1.04834 | .95389 | 32 | 1.26595 |
| .30514 | 29 | .30043 | 3.32858 | .31499 | 3.17481 | 1.04843 | .95380 | 31 | 1.26566 |
| .30543 | 30 | .30071 | 3.32551 | .31531 | 3.17158 | 1.04853 | .95372 | 30 | 1.26536 |
| .30572 | 31 | .30098 | 3.32244 | .31563 | 3.16835 | 1.04862 | .95363 | 29 | 1.26507 |
| .30601 | 32 | .30126 | 3.31939 | .31594 | 3.16517 | 1.04872 | .95354 | 28 | 1.26478 |
| .30631 | 33 | .30154 | 3.31633 | .31626 | 3.16197 | 1.04882 | .95345 | 27 | 1.26449 |
| .30660 | 34 | .30182 | 3.31328 | .31658 | 3.15877 | 1.04891 | .95337 | 26 | 1.26420 |
| .30689 | 35 | .30209 | 3.31024 | .31690 | 3.15558 | 1.04901 | .95328 | 25 | 1.26391 |
| .30718 | 36 | .30237 | 3.30721 | .31722 | 3.15240 | 1.04911 | .95319 | 24 | 1.26362 |
| .30747 | 37 | .30265 | 3.30418 | .31754 | 3.14922 | 1.04920 | .95310 | 23 | 1.26333 |
| .30776 | 38 | .30293 | 3.30115 | .31786 | 3.14605 | 1.04930 | .95301 | 22 | 1.26304 |
| .30805 | 39 | .30320 | 3.29814 | .31818 | 3.14288 | 1.04940 | .95293 | 21 | 1.26275 |
| .30834 | 40 | .30348 | 3.29512 | .31850 | 3.13972 | 1.04950 | .95284 | 20 | 1.26245 |
| .30863 | 41 | .30376 | 3.29212 | .31882 | 3.13656 | 1.04959 | .95275 | 19 | 1.26216 |
| .30892 | 42 | .30403 | 3.28912 | .31914 | 3.13341 | 1.04969 | .95266 | 18 | 1.26187 |
| .30921 | 43 | .30431 | 3.28612 | .31946 | 3.13027 | 1.04979 | .95257 | 17 | 1.26158 |
| .30951 | 44 | .30459 | 3.28313 | .31978 | 3.12713 | 1.04989 | .95248 | 16 | 1.26129 |
| .30980 | 45 | .30486 | 3.28015 | .32010 | 3.12400 | 1.04998 | .95240 | 15 | 1.26100 |
| .31009 | 46 | .30514 | 3.27717 | .32042 | 3.12087 | 1.05008 | .95231 | 14 | 1.26071 |
| .31038 | 47 | .30542 | 3.27420 | .32074 | 3.11775 | 1.05018 | .95222 | 13 | 1.26042 |
| .31067 | 48 | .30570 | 3.27123 | .32106 | 3.11464 | 1.05028 | .95213 | 12 | 1.26013 |
| .31096 | 49 | .30597 | 3.26827 | .32139 | 3.11153 | 1.05038 | .95204 | 11 | 1.25984 |
| .31125 | 50 | .30625 | 3.26531 | .32171 | 3.10842 | 1.05047 | .95195 | 10 | 1.25955 |
| .31154 | 51 | .30653 | 3.26237 | .32203 | 3.10532 | 1.05057 | .95186 | 9 | 1.25926 |
| .31183 | 52 | .30680 | 3.25942 | .32235 | 3.10223 | 1.05067 | .95177 | 8 | 1.25896 |
| .31212 | 53 | .30708 | 3.25648 | .32267 | 3.09914 | 1.05077 | .95168 | 7 | 1.25867 |
| .31241 | 54 | .30736 | 3.25355 | .32299 | 3.09606 | 1.05087 | .95159 | 6 | 1.25838 |
| .31270 | 55 | .30763 | 3.25062 | .32331 | 3.09298 | 1.05097 | .95150 | 5 | 1.25809 |
| .31300 | 56 | .30791 | 3.24770 | .32363 | 3.08991 | 1.05107 | .95142 | 4 | 1.25780 |
| .31329 | 57 | .30819 | 3.24478 | .32396 | 3.08685 | 1.05116 | .95133 | 3 | 1.25751 |
| .31358 | 58 | .30846 | 3.24187 | .32428 | 3.08379 | 1.05126 | .95124 | 2 | 1.25722 |
| .31387 | 59 | .30874 | 3.23895 | .32460 | 3.08073 | 1.05136 | .95115 | 1 | 1.25693 |
| .31416 | 60 | .30902 | 3.23604 | .32492 | 3.07767 | 1.05146 | .95106 | 0 | 1.25664 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|-------|----|--------|---------|--------|---------|---------|--------|----|---------|
| 31416 | 0 | .30902 | 3.23607 | .32492 | 3.07768 | 1.05146 | .95106 | 60 | 1.25664 |
| 31445 | 1 | .30939 | 3.23317 | .32524 | 3.07464 | 1.05156 | .95097 | 59 | 1.25635 |
| 31474 | 2 | .30957 | 3.23028 | .32556 | 3.07160 | 1.05166 | .95088 | 58 | 1.25606 |
| 31503 | 3 | .30985 | 3.22740 | .32588 | 3.06857 | 1.05176 | .95079 | 57 | 1.25577 |
| 31532 | 4 | .31012 | 3.22452 | .32621 | 3.06554 | 1.05186 | .95070 | 56 | 1.25548 |
| 31561 | 5 | .31040 | 3.22165 | .32653 | 3.06252 | 1.05196 | .95061 | 55 | 1.25518 |
| 31590 | 6 | .31068 | 3.21878 | .32685 | 3.05950 | 1.05206 | .95052 | 54 | 1.25489 |
| 31620 | 7 | .31095 | 3.21592 | .32717 | 3.05649 | 1.05216 | .95043 | 53 | 1.25460 |
| 31649 | 8 | .31123 | 3.21306 | .32749 | 3.05349 | 1.05226 | .95033 | 52 | 1.25431 |
| 31678 | 9 | .31151 | 3.21021 | .32782 | 3.05049 | 1.05236 | .95024 | 51 | 1.25402 |
| 31707 | 10 | .31178 | 3.20737 | .32814 | 3.04749 | 1.05246 | .95015 | 50 | 1.25373 |
| 31736 | 11 | .31206 | 3.20453 | .32846 | 3.04450 | 1.05256 | .95006 | 49 | 1.25344 |
| 31765 | 12 | .31233 | 3.20169 | .32878 | 3.04152 | 1.05266 | .94997 | 48 | 1.25315 |
| 31794 | 13 | .31261 | 3.19886 | .32911 | 3.03854 | 1.05276 | .94988 | 47 | 1.25286 |
| 31823 | 14 | .31289 | 3.19604 | .32943 | 3.03556 | 1.05286 | .94979 | 46 | 1.25256 |
| 31852 | 15 | .31316 | 3.19322 | .32975 | 3.03260 | 1.05297 | .94970 | 45 | 1.25227 |
| 31881 | 16 | .31344 | 3.19040 | .33007 | 3.02963 | 1.05307 | .94961 | 44 | 1.25198 |
| 31910 | 17 | .31372 | 3.18759 | .33040 | 3.02667 | 1.05317 | .94952 | 43 | 1.25169 |
| 31940 | 18 | .31399 | 3.18479 | .33072 | 3.02372 | 1.05327 | .94943 | 42 | 1.25140 |
| 31969 | 19 | .31427 | 3.18199 | .33104 | 3.02077 | 1.05337 | .94933 | 41 | 1.25111 |
| 31998 | 20 | .31454 | 3.17920 | .33136 | 3.01783 | 1.05347 | .94924 | 40 | 1.25082 |
| 32027 | 21 | .31482 | 3.17641 | .33169 | 3.01489 | 1.05357 | .94915 | 39 | 1.25053 |
| 32056 | 22 | .31510 | 3.17363 | .33201 | 3.01196 | 1.05367 | .94906 | 38 | 1.25024 |
| 32085 | 23 | .31537 | 3.17085 | .33233 | 3.00903 | 1.05378 | .94897 | 37 | 1.24995 |
| 32114 | 24 | .31565 | 3.16808 | .33266 | 3.00611 | 1.05388 | .94888 | 36 | 1.24966 |
| 32143 | 25 | .31593 | 3.16531 | .33298 | 3.00319 | 1.05398 | .94878 | 35 | 1.24937 |
| 32172 | 26 | .31620 | 3.16255 | .33330 | 3.00028 | 1.05408 | .94869 | 34 | 1.24907 |
| 32201 | 27 | .31648 | 3.15979 | .33363 | 2.99738 | 1.05418 | .94860 | 33 | 1.24878 |
| 32230 | 28 | .31675 | 3.15704 | .33395 | 2.99447 | 1.05429 | .94851 | 32 | 1.24849 |
| 32260 | 29 | .31703 | 3.15429 | .33427 | 2.99158 | 1.05439 | .94842 | 31 | 1.24820 |
| 32289 | 30 | .31730 | 3.15155 | .33460 | 2.98868 | 1.05449 | .94832 | 30 | 1.24791 |
| 32318 | 31 | .31758 | 3.14881 | .33492 | 2.98580 | 1.05459 | .94823 | 29 | 1.24762 |
| 32347 | 32 | .31786 | 3.14608 | .33524 | 2.98292 | 1.05470 | .94814 | 28 | 1.24733 |
| 32376 | 33 | .31813 | 3.14335 | .33557 | 2.98004 | 1.05480 | .94805 | 27 | 1.24704 |
| 32405 | 34 | .31841 | 3.14063 | .33589 | 2.97717 | 1.05490 | .94795 | 26 | 1.24675 |
| 32434 | 35 | .31868 | 3.13791 | .33621 | 2.97430 | 1.05501 | .94786 | 25 | 1.24646 |
| 32463 | 36 | .31896 | 3.13520 | .33654 | 2.97144 | 1.05511 | .94777 | 24 | 1.24617 |
| 32492 | 37 | .31923 | 3.13249 | .33686 | 2.96858 | 1.05521 | .94768 | 23 | 1.24588 |
| 32521 | 38 | .31951 | 3.12979 | .33718 | 2.96573 | 1.05532 | .94758 | 22 | 1.24558 |
| 32550 | 39 | .31979 | 3.12709 | .33751 | 2.96288 | 1.05542 | .94749 | 21 | 1.24529 |
| 32579 | 40 | .32006 | 3.12439 | .33783 | 2.96004 | 1.05552 | .94740 | 20 | 1.24500 |
| 32609 | 41 | .32034 | 3.12171 | .33816 | 2.95720 | 1.05562 | .94730 | 19 | 1.24471 |
| 32638 | 42 | .32061 | 3.11903 | .33848 | 2.95437 | 1.05573 | .94721 | 18 | 1.24442 |
| 32667 | 43 | .32089 | 3.11635 | .33881 | 2.95155 | 1.05584 | .94712 | 17 | 1.24413 |
| 32696 | 44 | .32116 | 3.11367 | .33913 | 2.94872 | 1.05594 | .94702 | 16 | 1.24384 |
| 32725 | 45 | .32144 | 3.11101 | .33945 | 2.94591 | 1.05604 | .94693 | 15 | 1.24355 |
| 32754 | 46 | .32171 | 3.10834 | .33978 | 2.94309 | 1.05615 | .94684 | 14 | 1.24326 |
| 32783 | 47 | .32199 | 3.10568 | .34010 | 2.94028 | 1.05625 | .94674 | 13 | 1.24297 |
| 32812 | 48 | .32227 | 3.10303 | .34043 | 2.93748 | 1.05636 | .94665 | 12 | 1.24268 |
| 32841 | 49 | .32254 | 3.10038 | .34075 | 2.93468 | 1.05646 | .94656 | 11 | 1.24238 |
| 32870 | 50 | .32282 | 3.09774 | .34108 | 2.93189 | 1.05657 | .94646 | 10 | 1.24209 |
| 32899 | 51 | .32309 | 3.09510 | .34140 | 2.92910 | 1.05667 | .94637 | 9 | 1.24180 |
| 32929 | 52 | .32337 | 3.09246 | .34173 | 2.92632 | 1.05678 | .94627 | 8 | 1.24151 |
| 32958 | 53 | .32364 | 3.08983 | .34205 | 2.92354 | 1.05688 | .94618 | 7 | 1.24122 |
| 32987 | 54 | .32392 | 3.08721 | .34238 | 2.92076 | 1.05699 | .94609 | 6 | 1.24093 |
| 33016 | 55 | .32419 | 3.08459 | .34270 | 2.91799 | 1.05709 | .94599 | 5 | 1.24064 |
| 33045 | 56 | .32447 | 3.08197 | .34303 | 2.91523 | 1.05720 | .94590 | 4 | 1.24035 |
| 33074 | 57 | .32474 | 3.07936 | .34335 | 2.91246 | 1.05730 | .94580 | 3 | 1.24006 |
| 33103 | 58 | .32502 | 3.07675 | .34368 | 2.90971 | 1.05741 | .94571 | 2 | 1.23977 |
| 33132 | 59 | .32529 | 3.07415 | .34400 | 2.90696 | 1.05751 | .94561 | 1 | 1.23947 |
| 33161 | 60 | .32557 | 3.07155 | .34433 | 2.90421 | 1.05762 | .94552 | 0 | 1.23918 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .33161 | 0 | .32557 | 3.07155 | .34433 | 2.90421 | 1.05762 | .94552 | 60 | 1.23918 |
| .33190 | 1 | .32584 | 3.06896 | .34465 | 2.90147 | 1.05773 | .94542 | 59 | 1.23889 |
| .33219 | 2 | .32612 | 3.06637 | .34498 | 2.89873 | 1.05783 | .94533 | 58 | 1.23860 |
| .33249 | 3 | .32639 | 3.06379 | .34530 | 2.89600 | 1.05794 | .94523 | 57 | 1.23831 |
| .33278 | 4 | .32667 | 3.06121 | .34563 | 2.89327 | 1.05805 | .94514 | 56 | 1.23802 |
| .33307 | 5 | .32694 | 3.05864 | .34596 | 2.89055 | 1.05815 | .94504 | 55 | 1.23773 |
| .33336 | 6 | .32722 | 3.05607 | .34628 | 2.88783 | 1.05826 | .94495 | 54 | 1.23744 |
| .33365 | 7 | .32749 | 3.05350 | .34661 | 2.88511 | 1.05836 | .94485 | 53 | 1.23715 |
| .33394 | 8 | .32777 | 3.05094 | .34693 | 2.88240 | 1.05847 | .94476 | 52 | 1.23686 |
| .33423 | 9 | .32804 | 3.04839 | .34726 | 2.87970 | 1.05858 | .94466 | 51 | 1.23657 |
| .33452 | 10 | .32832 | 3.04584 | .34758 | 2.87700 | 1.05869 | .94457 | 50 | 1.23627 |
| .33481 | 11 | .32859 | 3.04329 | .34791 | 2.87430 | 1.05879 | .94447 | 49 | 1.23598 |
| .33510 | 12 | .32887 | 3.04075 | .34824 | 2.87161 | 1.05890 | .94438 | 48 | 1.23569 |
| .33539 | 13 | .32914 | 3.03821 | .34856 | 2.86892 | 1.05901 | .94428 | 47 | 1.23540 |
| .33568 | 14 | .32942 | 3.03568 | .34889 | 2.86624 | 1.05911 | .94418 | 46 | 1.23511 |
| .33598 | 15 | .32969 | 3.03315 | .34922 | 2.86356 | 1.05922 | .94409 | 45 | 1.23482 |
| .33627 | 16 | .32997 | 3.03062 | .34954 | 2.86089 | 1.05933 | .94399 | 44 | 1.23453 |
| .33656 | 17 | .33024 | 3.02810 | .34987 | 2.85822 | 1.05944 | .94390 | 43 | 1.23424 |
| .33685 | 18 | .33051 | 3.02559 | .35020 | 2.85555 | 1.05955 | .94380 | 42 | 1.23395 |
| .33714 | 19 | .33079 | 3.02308 | .35052 | 2.85289 | 1.05965 | .94370 | 41 | 1.23366 |
| .33743 | 20 | .33106 | 3.02057 | .35085 | 2.85023 | 1.05976 | .94361 | 40 | 1.23337 |
| .33772 | 21 | .33134 | 3.01807 | .35118 | 2.84758 | 1.05987 | .94351 | 39 | 1.23308 |
| .33801 | 22 | .33161 | 3.01557 | .35150 | 2.84494 | 1.05998 | .94342 | 38 | 1.23278 |
| .33830 | 23 | .33189 | 3.01308 | .35183 | 2.84229 | 1.06009 | .94332 | 37 | 1.23249 |
| .33859 | 24 | .33216 | 3.01059 | .35216 | 2.83965 | 1.06020 | .94322 | 36 | 1.23220 |
| .33888 | 25 | .33244 | 3.00810 | .35248 | 2.83702 | 1.06030 | .94313 | 35 | 1.23191 |
| .33918 | 26 | .33271 | 3.00562 | .35281 | 2.83439 | 1.06041 | .94303 | 34 | 1.23162 |
| .33947 | 27 | .33298 | 3.00315 | .35314 | 2.83176 | 1.06052 | .94293 | 33 | 1.23133 |
| .33976 | 28 | .33326 | 3.00067 | .35346 | 2.82914 | 1.06063 | .94284 | 32 | 1.23104 |
| .34005 | 29 | .33353 | 2.99821 | .35379 | 2.82653 | 1.06074 | .94274 | 31 | 1.23075 |
| .34034 | 30 | .33381 | 2.99574 | .35412 | 2.82391 | 1.06085 | .94264 | 30 | 1.23046 |
| .34063 | 31 | .33408 | 2.99329 | .35445 | 2.82130 | 1.06096 | .94254 | 29 | 1.23017 |
| .34092 | 32 | .33436 | 2.99083 | .35477 | 2.81870 | 1.06107 | .94245 | 28 | 1.22988 |
| .34121 | 33 | .33463 | 2.98838 | .35510 | 2.81610 | 1.06118 | .94235 | 27 | 1.22958 |
| .34150 | 34 | .33490 | 2.98594 | .35543 | 2.81350 | 1.06129 | .94225 | 26 | 1.22929 |
| .34179 | 35 | .33518 | 2.98349 | .35576 | 2.81091 | 1.06140 | .94215 | 25 | 1.22900 |
| .34208 | 36 | .33545 | 2.98106 | .35608 | 2.80833 | 1.06151 | .94206 | 24 | 1.22871 |
| .34238 | 37 | .33573 | 2.97862 | .35641 | 2.80574 | 1.06162 | .94196 | 23 | 1.22842 |
| .34267 | 38 | .33600 | 2.97619 | .35674 | 2.80316 | 1.06173 | .94186 | 22 | 1.22813 |
| .34296 | 39 | .33627 | 2.97377 | .35707 | 2.80059 | 1.06184 | .94176 | 21 | 1.22784 |
| .34325 | 40 | .33655 | 2.97135 | .35740 | 2.79802 | 1.06195 | .94167 | 20 | 1.22755 |
| .34354 | 41 | .33682 | 2.96893 | .35772 | 2.79545 | 1.06206 | .94157 | 19 | 1.22726 |
| .34383 | 42 | .33710 | 2.96652 | .35805 | 2.79289 | 1.06217 | .94147 | 18 | 1.22697 |
| .34412 | 43 | .33737 | 2.96411 | .35838 | 2.79033 | 1.06228 | .94137 | 17 | 1.22668 |
| .34441 | 44 | .33764 | 2.96171 | .35871 | 2.78778 | 1.06239 | .94127 | 16 | 1.22638 |
| .34470 | 45 | .33792 | 2.95931 | .35904 | 2.78523 | 1.06250 | .94118 | 15 | 1.22609 |
| .34499 | 46 | .33819 | 2.95691 | .35937 | 2.78269 | 1.06261 | .94108 | 14 | 1.22580 |
| .34528 | 47 | .33846 | 2.95452 | .35969 | 2.78014 | 1.06272 | .94098 | 13 | 1.22551 |
| .34558 | 48 | .33874 | 2.95213 | .36002 | 2.77761 | 1.06283 | .94088 | 12 | 1.22522 |
| .34587 | 49 | .33901 | 2.94975 | .36035 | 2.77507 | 1.06295 | .94078 | 11 | 1.22493 |
| .34616 | 50 | .33929 | 2.94737 | .36068 | 2.77254 | 1.06306 | .94068 | 10 | 1.22464 |
| .34645 | 51 | .33956 | 2.94500 | .36101 | 2.77002 | 1.06317 | .94058 | 9 | 1.22435 |
| .34674 | 52 | .33983 | 2.94263 | .36134 | 2.76750 | 1.06328 | .94049 | 8 | 1.22406 |
| .34703 | 53 | .34011 | 2.94026 | .36167 | 2.76498 | 1.06339 | .94039 | 7 | 1.22377 |
| .34732 | 54 | .34038 | 2.93790 | .36199 | 2.76247 | 1.06350 | .94029 | 6 | 1.22348 |
| .34761 | 55 | .34065 | 2.93554 | .36232 | 2.75996 | 1.06362 | .94019 | 5 | 1.22318 |
| .34790 | 56 | .34093 | 2.93318 | .36265 | 2.75746 | 1.06373 | .94009 | 4 | 1.22289 |
| .34819 | 57 | .34120 | 2.93083 | .36298 | 2.75496 | 1.06384 | .93999 | 3 | 1.22260 |
| .34848 | 58 | .34147 | 2.92849 | .36331 | 2.75246 | 1.06395 | .93989 | 2 | 1.22231 |
| .34877 | 59 | .34175 | 2.92615 | .36364 | 2.74997 | 1.06407 | .93979 | 1 | 1.22202 |
| .34907 | 60 | .34202 | 2.92380 | .36397 | 2.74748 | 1.06418 | .93969 | 0 | 1.22173 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .34907 | 0 | .34902 | 2.92380 | .36397 | 2.74748 | 1.06418 | .93969 | 60 | 1.22173 |
| .34936 | 1 | .34229 | 2.92147 | .36430 | 2.74499 | 1.06429 | .93959 | 59 | 1.22144 |
| .34965 | 2 | .34257 | 2.91914 | .36463 | 2.74251 | 1.06440 | .93949 | 58 | 1.22115 |
| .34994 | 3 | .34284 | 2.91681 | .36496 | 2.74004 | 1.06452 | .93939 | 57 | 1.22086 |
| .35023 | 4 | .34311 | 2.91449 | .36529 | 2.73756 | 1.06463 | .93929 | 56 | 1.22057 |
| .35052 | 5 | .34339 | 2.91217 | .36562 | 2.73509 | 1.06474 | .93919 | 55 | 1.22028 |
| .35081 | 6 | .34366 | 2.90986 | .36595 | 2.73263 | 1.06486 | .93909 | 54 | 1.21999 |
| .35110 | 7 | .34393 | 2.90754 | .36628 | 2.73017 | 1.06497 | .93899 | 53 | 1.21969 |
| .35139 | 8 | .34421 | 2.90524 | .36661 | 2.72771 | 1.06508 | .93889 | 52 | 1.21940 |
| .35168 | 9 | .34448 | 2.90293 | .36694 | 2.72526 | 1.06520 | .93879 | 51 | 1.21911 |
| .35197 | 10 | .34475 | 2.90063 | .36727 | 2.72281 | 1.06531 | .93869 | 50 | 1.21882 |
| .35227 | 11 | .34503 | 2.89834 | .36760 | 2.72036 | 1.06542 | .93859 | 49 | 1.21853 |
| .35256 | 12 | .34530 | 2.89605 | .36793 | 2.71792 | 1.06554 | .93849 | 48 | 1.21824 |
| .35285 | 13 | .34557 | 2.89376 | .36826 | 2.71548 | 1.06565 | .93839 | 47 | 1.21795 |
| .35314 | 14 | .34584 | 2.89148 | .36859 | 2.71305 | 1.06577 | .93829 | 46 | 1.21766 |
| .35343 | 15 | .34612 | 2.88920 | .36892 | 2.71062 | 1.06588 | .93819 | 45 | 1.21737 |
| .35372 | 16 | .34639 | 2.88692 | .36925 | 2.70819 | 1.06600 | .93809 | 44 | 1.21708 |
| .35401 | 17 | .34666 | 2.88465 | .36958 | 2.70577 | 1.06611 | .93799 | 43 | 1.21679 |
| .35430 | 18 | .34694 | 2.88238 | .36991 | 2.70335 | 1.06622 | .93789 | 42 | 1.21649 |
| .35459 | 19 | .34721 | 2.88011 | .37024 | 2.70094 | 1.06634 | .93779 | 41 | 1.21620 |
| .35488 | 20 | .34748 | 2.87785 | .37057 | 2.69853 | 1.06645 | .93769 | 40 | 1.21591 |
| .35517 | 21 | .34775 | 2.87560 | .37090 | 2.69612 | 1.06657 | .93759 | 39 | 1.21562 |
| .35547 | 22 | .34803 | 2.87334 | .37123 | 2.69371 | 1.06668 | .93748 | 38 | 1.21533 |
| .35576 | 23 | .34830 | 2.87109 | .37157 | 2.69131 | 1.06680 | .93738 | 37 | 1.21504 |
| .35605 | 24 | .34857 | 2.86885 | .37190 | 2.68892 | 1.06691 | .93728 | 36 | 1.21475 |
| .35634 | 25 | .34884 | 2.86661 | .37223 | 2.68653 | 1.06703 | .93718 | 35 | 1.21446 |
| .35663 | 26 | .34912 | 2.86437 | .37256 | 2.68414 | 1.06715 | .93708 | 34 | 1.21417 |
| .35692 | 27 | .34939 | 2.86213 | .37289 | 2.68175 | 1.06726 | .93698 | 33 | 1.21388 |
| .35721 | 28 | .34966 | 2.85990 | .37322 | 2.67937 | 1.06738 | .93688 | 32 | 1.21359 |
| .35750 | 29 | .34993 | 2.85767 | .37355 | 2.67700 | 1.06749 | .93677 | 31 | 1.21329 |
| .35779 | 30 | .35021 | 2.85545 | .37388 | 2.67462 | 1.06761 | .93667 | 30 | 1.21300 |
| .35808 | 31 | .35048 | 2.85323 | .37422 | 2.67225 | 1.06773 | .93657 | 29 | 1.21271 |
| .35837 | 32 | .35075 | 2.85102 | .37455 | 2.66989 | 1.06784 | .93647 | 28 | 1.21242 |
| .35866 | 33 | .35102 | 2.84880 | .37488 | 2.66752 | 1.06796 | .93637 | 27 | 1.21213 |
| .35896 | 34 | .35130 | 2.84659 | .37521 | 2.66516 | 1.06807 | .93626 | 26 | 1.21184 |
| .35925 | 35 | .35157 | 2.84439 | .37554 | 2.66281 | 1.06819 | .93616 | 25 | 1.21155 |
| .35954 | 36 | .35184 | 2.84219 | .37588 | 2.66046 | 1.06831 | .93606 | 24 | 1.21126 |
| .35983 | 37 | .35211 | 2.83999 | .37621 | 2.65811 | 1.06842 | .93596 | 23 | 1.21097 |
| .36012 | 38 | .35239 | 2.83780 | .37654 | 2.65576 | 1.06854 | .93585 | 22 | 1.21068 |
| .36041 | 39 | .35266 | 2.83561 | .37687 | 2.65342 | 1.06866 | .93575 | 21 | 1.21039 |
| .36070 | 40 | .35293 | 2.83343 | .37720 | 2.65109 | 1.06878 | .93565 | 20 | 1.21009 |
| .36099 | 41 | .35320 | 2.83124 | .37753 | 2.64875 | 1.06889 | .93555 | 19 | 1.20980 |
| .36128 | 42 | .35347 | 2.82906 | .37787 | 2.64642 | 1.06901 | .93544 | 18 | 1.20951 |
| .36157 | 43 | .35375 | 2.82688 | .37820 | 2.64410 | 1.06913 | .93534 | 17 | 1.20922 |
| .36186 | 44 | .35402 | 2.82471 | .37853 | 2.64177 | 1.06925 | .93524 | 16 | 1.20893 |
| .36216 | 45 | .35429 | 2.82254 | .37887 | 2.63945 | 1.06936 | .93514 | 15 | 1.20864 |
| .36245 | 46 | .35456 | 2.82037 | .37920 | 2.63714 | 1.06948 | .93503 | 14 | 1.20835 |
| .36274 | 47 | .35484 | 2.81821 | .37953 | 2.63483 | 1.06960 | .93493 | 13 | 1.20806 |
| .36303 | 48 | .35511 | 2.81605 | .37986 | 2.63252 | 1.06972 | .93483 | 12 | 1.20777 |
| .36332 | 49 | .35538 | 2.81390 | .38020 | 2.63021 | 1.06984 | .93472 | 11 | 1.20748 |
| .36361 | 50 | .35565 | 2.81175 | .38053 | 2.62791 | 1.06995 | .93462 | 10 | 1.20719 |
| .36390 | 51 | .35592 | 2.80960 | .38086 | 2.62561 | 1.07007 | .93452 | 9 | 1.20690 |
| .36419 | 52 | .35619 | 2.80746 | .38120 | 2.62332 | 1.07019 | .93441 | 8 | 1.20660 |
| .36448 | 53 | .35647 | 2.80531 | .38153 | 2.62103 | 1.07031 | .93431 | 7 | 1.20631 |
| .36477 | 54 | .35674 | 2.80318 | .38186 | 2.61874 | 1.07043 | .93420 | 6 | 1.20602 |
| .36506 | 55 | .35701 | 2.80104 | .38220 | 2.61646 | 1.07055 | .93410 | 5 | 1.20573 |
| .36536 | 56 | .35728 | 2.79891 | .38253 | 2.61418 | 1.07067 | .93400 | 4 | 1.20544 |
| .36565 | 57 | .35755 | 2.79679 | .38286 | 2.61190 | 1.07079 | .93389 | 3 | 1.20515 |
| .36594 | 58 | .35782 | 2.79466 | .38320 | 2.60963 | 1.07091 | .93379 | 2 | 1.20486 |
| .36623 | 59 | .35810 | 2.79254 | .38353 | 2.60736 | 1.07103 | .93368 | 1 | 1.20457 |
| .36652 | 60 | .35837 | 2.79043 | .38386 | 2.60509 | 1.07114 | .93358 | 0 | 1.20428 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .36652 | 0 | .35837 | 2.79043 | .38386 | 2.60509 | 1.07114 | .93398 | 60 | 1.20428 |
| .36681 | 1 | .35864 | 2.78832 | .38420 | 2.60283 | 1.07126 | .93348 | 59 | 1.20399 |
| .36710 | 2 | .35891 | 2.78621 | .38453 | 2.60057 | 1.07138 | .93337 | 58 | 1.20370 |
| .36739 | 3 | .35918 | 2.78410 | .38487 | 2.59831 | 1.07150 | .93327 | 57 | 1.20340 |
| .36768 | 4 | .35945 | 2.78200 | .38520 | 2.59606 | 1.07162 | .93316 | 56 | 1.20311 |
| .36797 | 5 | .35973 | 2.77990 | .38553 | 2.59381 | 1.07174 | .93306 | 55 | 1.20282 |
| .36826 | 6 | .36000 | 2.77780 | .38587 | 2.59156 | 1.07186 | .93295 | 54 | 1.20253 |
| .36856 | 7 | .36027 | 2.77571 | .38620 | 2.58932 | 1.07199 | .93285 | 53 | 1.20224 |
| .36885 | 8 | .36054 | 2.77362 | .38654 | 2.58708 | 1.07211 | .93274 | 52 | 1.20195 |
| .36914 | 9 | .36081 | 2.77154 | .38687 | 2.58484 | 1.07223 | .93264 | 51 | 1.20166 |
| .36943 | 10 | .36108 | 2.76945 | .38721 | 2.58261 | 1.07235 | .93253 | 50 | 1.20137 |
| .36972 | 11 | .36135 | 2.76737 | .38754 | 2.58038 | 1.07247 | .93243 | 49 | 1.20108 |
| .37001 | 12 | .36162 | 2.76530 | .38787 | 2.57815 | 1.07259 | .93232 | 48 | 1.20079 |
| .37030 | 13 | .36190 | 2.76323 | .38821 | 2.57593 | 1.07271 | .93222 | 47 | 1.20050 |
| .37059 | 14 | .36217 | 2.76116 | .38854 | 2.57371 | 1.07283 | .93211 | 46 | 1.20020 |
| .37088 | 15 | .36244 | 2.75909 | .38888 | 2.57150 | 1.07295 | .93201 | 45 | 1.19991 |
| .37117 | 16 | .36271 | 2.75703 | .38921 | 2.56928 | 1.07307 | .93190 | 44 | 1.19962 |
| .37146 | 17 | .36298 | 2.75497 | .38955 | 2.56707 | 1.07320 | .93180 | 43 | 1.19933 |
| .37176 | 18 | .36325 | 2.75292 | .38988 | 2.56487 | 1.07332 | .93169 | 42 | 1.19904 |
| .37205 | 19 | .36352 | 2.75086 | .39022 | 2.56266 | 1.07344 | .93159 | 41 | 1.19875 |
| .37234 | 20 | .36379 | 2.74881 | .39055 | 2.56046 | 1.07356 | .93148 | 40 | 1.19846 |
| .37263 | 21 | .36406 | 2.74677 | .39089 | 2.55827 | 1.07368 | .93137 | 39 | 1.19817 |
| .37292 | 22 | .36434 | 2.74473 | .39122 | 2.55608 | 1.07380 | .93127 | 38 | 1.19788 |
| .37321 | 23 | .36461 | 2.74269 | .39156 | 2.55389 | 1.07393 | .93116 | 37 | 1.19759 |
| .37350 | 24 | .36488 | 2.74065 | .39190 | 2.55170 | 1.07405 | .93106 | 36 | 1.19730 |
| .37379 | 25 | .36515 | 2.73862 | .39223 | 2.54952 | 1.07417 | .93095 | 35 | 1.19700 |
| .37408 | 26 | .36542 | 2.73659 | .39257 | 2.54734 | 1.07429 | .93084 | 34 | 1.19671 |
| .37437 | 27 | .36569 | 2.73456 | .39290 | 2.54516 | 1.07442 | .93074 | 33 | 1.19642 |
| .37466 | 28 | .36596 | 2.73254 | .39324 | 2.54299 | 1.07454 | .93063 | 32 | 1.19613 |
| .37495 | 29 | .36623 | 2.73052 | .39357 | 2.54082 | 1.07466 | .93052 | 31 | 1.19584 |
| .37525 | 30 | .36650 | 2.72850 | .39391 | 2.53865 | 1.07479 | .93042 | 30 | 1.19555 |
| .37554 | 31 | .36677 | 2.72649 | .39425 | 2.53648 | 1.07491 | .93031 | 29 | 1.19526 |
| .37583 | 32 | .36704 | 2.72448 | .39458 | 2.53432 | 1.07503 | .93020 | 28 | 1.19497 |
| .37612 | 33 | .36731 | 2.72247 | .39492 | 2.53217 | 1.07516 | .93010 | 27 | 1.19468 |
| .37641 | 34 | .36758 | 2.72047 | .39526 | 2.53001 | 1.07528 | .92999 | 26 | 1.19439 |
| .37670 | 35 | .36785 | 2.71847 | .39559 | 2.52786 | 1.07540 | .92988 | 25 | 1.19410 |
| .37699 | 36 | .36812 | 2.71647 | .39593 | 2.52571 | 1.07553 | .92978 | 24 | 1.19381 |
| .37728 | 37 | .36839 | 2.71448 | .39626 | 2.52357 | 1.07565 | .92967 | 23 | 1.19352 |
| .37757 | 38 | .36867 | 2.71249 | .39660 | 2.52142 | 1.07578 | .92956 | 22 | 1.19323 |
| .37786 | 39 | .36894 | 2.71050 | .39694 | 2.51929 | 1.07590 | .92945 | 21 | 1.19293 |
| .37815 | 40 | .36921 | 2.70851 | .39727 | 2.51715 | 1.07602 | .92935 | 20 | 1.19264 |
| .37845 | 41 | .36948 | 2.70653 | .39761 | 2.51502 | 1.07615 | .92924 | 19 | 1.19235 |
| .37874 | 42 | .36975 | 2.70455 | .39795 | 2.51289 | 1.07627 | .92913 | 18 | 1.19206 |
| .37903 | 43 | .37002 | 2.70258 | .39829 | 2.51076 | 1.07640 | .92902 | 17 | 1.19177 |
| .37932 | 44 | .37029 | 2.70061 | .39862 | 2.50864 | 1.07652 | .92892 | 16 | 1.19148 |
| .37961 | 45 | .37056 | 2.69864 | .39896 | 2.50652 | 1.07665 | .92881 | 15 | 1.19119 |
| .37990 | 46 | .37083 | 2.69667 | .39930 | 2.50440 | 1.07677 | .92870 | 14 | 1.19090 |
| .38019 | 47 | .37110 | 2.69471 | .39963 | 2.50229 | 1.07690 | .92859 | 13 | 1.19061 |
| .38048 | 48 | .37137 | 2.69275 | .39997 | 2.50018 | 1.07702 | .92849 | 12 | 1.19031 |
| .38077 | 49 | .37164 | 2.69079 | .40031 | 2.49807 | 1.07715 | .92838 | 11 | 1.19002 |
| .38106 | 50 | .37191 | 2.68884 | .40065 | 2.49597 | 1.07727 | .92827 | 10 | 1.18973 |
| .38135 | 51 | .37218 | 2.68689 | .40098 | 2.49386 | 1.07740 | .92816 | 9 | 1.18944 |
| .38165 | 52 | .37245 | 2.68494 | .40132 | 2.49177 | 1.07752 | .92805 | 8 | 1.18915 |
| .38194 | 53 | .37272 | 2.68299 | .40166 | 2.48967 | 1.07765 | .92794 | 7 | 1.18886 |
| .38223 | 54 | .37299 | 2.68105 | .40200 | 2.48758 | 1.07778 | .92784 | 6 | 1.18857 |
| .38252 | 55 | .37326 | 2.67911 | .40234 | 2.48549 | 1.07790 | .92773 | 5 | 1.18828 |
| .38281 | 56 | .37353 | 2.67718 | .40267 | 2.48340 | 1.07803 | .92762 | 4 | 1.18799 |
| .38310 | 57 | .37380 | 2.67525 | .40301 | 2.48132 | 1.07816 | .92751 | 3 | 1.18770 |
| .38339 | 58 | .37407 | 2.67332 | .40335 | 2.47924 | 1.07828 | .92740 | 2 | 1.18741 |
| .38368 | 59 | .37434 | 2.67139 | .40369 | 2.47716 | 1.07841 | .92729 | 1 | 1.18711 |
| .38397 | 60 | .37461 | 2.66947 | .40403 | 2.47509 | 1.07853 | .92718 | 0 | 1.18682 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .38397 | 0 | .37461 | 2.66947 | .40403 | 2.47509 | 1.07853 | .92718 | 60 | 1.18682 |
| .38426 | 1 | .37488 | 2.66755 | .40436 | 2.47302 | 1.07866 | .92707 | 59 | 1.18653 |
| .38455 | 2 | .37515 | 2.66563 | .40470 | 2.47095 | 1.07879 | .92697 | 58 | 1.18624 |
| .38485 | 3 | .37542 | 2.66371 | .40504 | 2.46888 | 1.07892 | .92686 | 57 | 1.18595 |
| .38514 | 4 | .37569 | 2.66180 | .40538 | 2.46682 | 1.07904 | .92675 | 56 | 1.18566 |
| .38543 | 5 | .37595 | 2.65989 | .40572 | 2.46476 | 1.07917 | .92664 | 55 | 1.18537 |
| .38572 | 6 | .37622 | 2.65799 | .40606 | 2.46270 | 1.07930 | .92653 | 54 | 1.18508 |
| .38601 | 7 | .37649 | 2.65609 | .40640 | 2.46065 | 1.07943 | .92642 | 53 | 1.18479 |
| .38630 | 8 | .37676 | 2.65419 | .40674 | 2.45860 | 1.07955 | .92631 | 52 | 1.18450 |
| .38659 | 9 | .37703 | 2.65229 | .40707 | 2.45655 | 1.07968 | .92620 | 51 | 1.18421 |
| .38688 | 10 | .37730 | 2.65040 | .40741 | 2.45451 | 1.07981 | .92609 | 50 | 1.18392 |
| .38717 | 11 | .37757 | 2.64851 | .40775 | 2.45246 | 1.07994 | .92598 | 49 | 1.18362 |
| .38746 | 12 | .37784 | 2.64662 | .40809 | 2.45043 | 1.08006 | .92587 | 48 | 1.18333 |
| .38775 | 13 | .37811 | 2.64473 | .40843 | 2.44839 | 1.08019 | .92576 | 47 | 1.18304 |
| .38804 | 14 | .37838 | 2.64285 | .40877 | 2.44636 | 1.08032 | .92565 | 46 | 1.18275 |
| .38834 | 15 | .37865 | 2.64097 | .40911 | 2.44433 | 1.08045 | .92554 | 45 | 1.18246 |
| .38863 | 16 | .37892 | 2.63909 | .40945 | 2.44230 | 1.08058 | .92543 | 44 | 1.18217 |
| .38892 | 17 | .37919 | 2.63722 | .40979 | 2.44027 | 1.08071 | .92532 | 43 | 1.18188 |
| .38921 | 18 | .37946 | 2.63535 | .41013 | 2.43825 | 1.08084 | .92521 | 42 | 1.18159 |
| .38950 | 19 | .37973 | 2.63348 | .41047 | 2.43623 | 1.08097 | .92510 | 41 | 1.18130 |
| .38979 | 20 | .37999 | 2.63162 | .41081 | 2.43422 | 1.08109 | .92499 | 40 | 1.18101 |
| .39008 | 21 | .38026 | 2.62976 | .41115 | 2.43220 | 1.08122 | .92488 | 39 | 1.18072 |
| .39037 | 22 | .38053 | 2.62790 | .41149 | 2.43019 | 1.08135 | .92477 | 38 | 1.18042 |
| .39066 | 23 | .38080 | 2.62604 | .41183 | 2.42819 | 1.08148 | .92466 | 37 | 1.18013 |
| .39095 | 24 | .38107 | 2.62419 | .41217 | 2.42618 | 1.08161 | .92455 | 36 | 1.17984 |
| .39124 | 25 | .38134 | 2.62234 | .41251 | 2.42418 | 1.08174 | .92444 | 35 | 1.17955 |
| .39154 | 26 | .38161 | 2.62049 | .41285 | 2.42218 | 1.08187 | .92432 | 34 | 1.17926 |
| .39183 | 27 | .38188 | 2.61864 | .41319 | 2.42019 | 1.08200 | .92421 | 33 | 1.17897 |
| .39212 | 28 | .38215 | 2.61680 | .41353 | 2.41819 | 1.08213 | .92410 | 32 | 1.17868 |
| .39241 | 29 | .38241 | 2.61496 | .41387 | 2.41620 | 1.08226 | .92399 | 31 | 1.17839 |
| .39270 | 30 | .38268 | 2.61313 | .41421 | 2.41421 | 1.08239 | .92388 | 30 | 1.17810 |
| .39299 | 31 | .38295 | 2.61129 | .41455 | 2.41223 | 1.08252 | .92377 | 29 | 1.17781 |
| .39328 | 32 | .38322 | 2.60946 | .41490 | 2.41025 | 1.08265 | .92366 | 28 | 1.17752 |
| .39357 | 33 | .38349 | 2.60763 | .41524 | 2.40827 | 1.08278 | .92355 | 27 | 1.17722 |
| .39386 | 34 | .38376 | 2.60581 | .41558 | 2.40629 | 1.08291 | .92343 | 26 | 1.17693 |
| .39415 | 35 | .38403 | 2.60399 | .41592 | 2.40432 | 1.08305 | .92332 | 25 | 1.17664 |
| .39444 | 36 | .38430 | 2.60217 | .41626 | 2.40235 | 1.08318 | .92321 | 24 | 1.17635 |
| .39474 | 37 | .38456 | 2.60035 | .41660 | 2.40038 | 1.08331 | .92310 | 23 | 1.17606 |
| .39503 | 38 | .38483 | 2.59853 | .41694 | 2.39841 | 1.08344 | .92299 | 22 | 1.17577 |
| .39532 | 39 | .38510 | 2.59672 | .41728 | 2.39645 | 1.08357 | .92288 | 21 | 1.17548 |
| .39561 | 40 | .38537 | 2.59491 | .41763 | 2.39449 | 1.08370 | .92276 | 20 | 1.17519 |
| .39590 | 41 | .38564 | 2.59311 | .41797 | 2.39253 | 1.08383 | .92265 | 19 | 1.17490 |
| .39619 | 42 | .38591 | 2.59130 | .41831 | 2.39058 | 1.08397 | .92254 | 18 | 1.17461 |
| .39648 | 43 | .38617 | 2.58950 | .41865 | 2.38863 | 1.08410 | .92243 | 17 | 1.17432 |
| .39677 | 44 | .38644 | 2.58771 | .41899 | 2.38668 | 1.08423 | .92231 | 16 | 1.17402 |
| .39706 | 45 | .38671 | 2.58591 | .41933 | 2.38473 | 1.08436 | .92220 | 15 | 1.17373 |
| .39735 | 46 | .38698 | 2.58412 | .41968 | 2.38279 | 1.08449 | .92209 | 14 | 1.17344 |
| .39764 | 47 | .38725 | 2.58233 | .42002 | 2.38084 | 1.08463 | .92198 | 13 | 1.17315 |
| .39794 | 48 | .38752 | 2.58054 | .42036 | 2.37891 | 1.08476 | .92186 | 12 | 1.17286 |
| .39823 | 49 | .38778 | 2.57876 | .42070 | 2.37697 | 1.08489 | .92175 | 11 | 1.17257 |
| .39852 | 50 | .38805 | 2.57698 | .42105 | 2.37504 | 1.08503 | .92164 | 10 | 1.17228 |
| .39881 | 51 | .38832 | 2.57520 | .42139 | 2.37311 | 1.08516 | .92152 | 9 | 1.17199 |
| .39910 | 52 | .38859 | 2.57342 | .42173 | 2.37118 | 1.08529 | .92141 | 8 | 1.17170 |
| .39939 | 53 | .38886 | 2.57165 | .42207 | 2.36925 | 1.08542 | .92130 | 7 | 1.17141 |
| .39968 | 54 | .38912 | 2.56988 | .42242 | 2.36733 | 1.08556 | .92119 | 6 | 1.17112 |
| .39997 | 55 | .38939 | 2.56811 | .42276 | 2.36541 | 1.08569 | .92107 | 5 | 1.17083 |
| .40026 | 56 | .38966 | 2.56634 | .42310 | 2.36349 | 1.08582 | .92096 | 4 | 1.17054 |
| .40055 | 57 | .38993 | 2.56458 | .42345 | 2.36158 | 1.08596 | .92085 | 3 | 1.17024 |
| .40084 | 58 | .39020 | 2.56282 | .42379 | 2.35967 | 1.08609 | .92073 | 2 | 1.16995 |
| .40113 | 59 | .39046 | 2.56106 | .42413 | 2.35776 | 1.08623 | .92062 | 1 | 1.16966 |
| .40143 | 60 | .39073 | 2.55930 | .42447 | 2.35585 | 1.08636 | .92050 | 0 | 1.16937 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .40143 | 0 | .39073 | 2.55930 | .42447 | 2.35585 | 1.08636 | .92050 | 60 | I.16937 |
| .40172 | 1 | .39100 | 2.55755 | .42482 | 2.35395 | 1.08649 | .92039 | 59 | I.16908 |
| .40201 | 2 | .39127 | 2.55580 | .42516 | 2.35205 | 1.08663 | .92028 | 58 | I.16879 |
| .40230 | 3 | .39153 | 2.55405 | .42551 | 2.35015 | 1.08676 | .92016 | 57 | I.16850 |
| .40259 | 4 | .39180 | 2.55231 | .42585 | 2.34825 | 1.08690 | .92005 | 56 | I.16821 |
| .40288 | 5 | .39207 | 2.55057 | .42619 | 2.34636 | 1.08703 | .91994 | 55 | I.16792 |
| .40317 | 6 | .39234 | 2.54883 | .42654 | 2.34447 | 1.08717 | .91982 | 54 | I.16763 |
| .40346 | 7 | .39260 | 2.54709 | .42688 | 2.34258 | 1.08730 | .91971 | 53 | I.16733 |
| .40375 | 8 | .39287 | 2.54536 | .42722 | 2.34069 | 1.08744 | .91959 | 52 | I.16704 |
| .40404 | 9 | .39314 | 2.54363 | .42757 | 2.33881 | 1.08757 | .91948 | 51 | I.16675 |
| .40433 | 10 | .39341 | 2.54190 | .42791 | 2.33693 | 1.08771 | .91936 | 50 | I.16646 |
| .40463 | 11 | .39367 | 2.54017 | .42826 | 2.33505 | 1.08784 | .91925 | 49 | I.16617 |
| .40492 | 12 | .39394 | 2.53845 | .42860 | 2.33317 | 1.08798 | .91914 | 48 | I.16588 |
| .40521 | 13 | .39421 | 2.53672 | .42894 | 2.33130 | 1.08811 | .91902 | 47 | I.16559 |
| .40550 | 14 | .39448 | 2.53500 | .42929 | 2.32943 | 1.08825 | .91891 | 46 | I.16530 |
| .40579 | 15 | .39474 | 2.53329 | .42963 | 2.32756 | 1.08839 | .91879 | 45 | I.16501 |
| .40608 | 16 | .39501 | 2.53157 | .42998 | 2.32570 | 1.08852 | .91868 | 44 | I.16472 |
| .40637 | 17 | .39528 | 2.52986 | .43032 | 2.32383 | 1.08866 | .91856 | 43 | I.16443 |
| .40666 | 18 | .39555 | 2.52815 | .43067 | 2.32197 | 1.08880 | .91845 | 42 | I.16413 |
| .40695 | 19 | .39581 | 2.52645 | .43101 | 2.32012 | 1.08893 | .91833 | 41 | I.16384 |
| .40724 | 20 | .39608 | 2.52474 | .43136 | 2.31826 | 1.08907 | .91822 | 40 | I.16355 |
| .40753 | 21 | .39635 | 2.52304 | .43170 | 2.31641 | 1.08920 | .91810 | 39 | I.16326 |
| .40783 | 22 | .39661 | 2.52134 | .43205 | 2.31456 | 1.08934 | .91799 | 38 | I.16297 |
| .40812 | 23 | .39688 | 2.51965 | .43239 | 2.31271 | 1.08948 | .91787 | 37 | I.16268 |
| .40841 | 24 | .39715 | 2.51795 | .43274 | 2.31086 | 1.08962 | .91775 | 36 | I.16239 |
| .40870 | 25 | .39741 | 2.51626 | .43308 | 2.30902 | 1.08975 | .91764 | 35 | I.16210 |
| .40899 | 26 | .39768 | 2.51457 | .43343 | 2.30718 | 1.08989 | .91752 | 34 | I.16181 |
| .40928 | 27 | .39795 | 2.51289 | .43378 | 2.30534 | 1.09003 | .91741 | 33 | I.16152 |
| .40957 | 28 | .39822 | 2.51120 | .43412 | 2.30351 | 1.09017 | .91729 | 32 | I.16123 |
| .40986 | 29 | .39848 | 2.50952 | .43447 | 2.30167 | 1.09030 | .91718 | 31 | I.16093 |
| .41015 | 30 | .39875 | 2.50784 | .43481 | 2.29984 | 1.09044 | .91706 | 30 | I.16064 |
| .41044 | 31 | .39902 | 2.50617 | .43516 | 2.29801 | 1.09058 | .91694 | 29 | I.16035 |
| .41073 | 32 | .39928 | 2.50449 | .43550 | 2.29619 | 1.09072 | .91683 | 28 | I.16006 |
| .41103 | 33 | .39955 | 2.50282 | .43585 | 2.29437 | 1.09086 | .91671 | 27 | I.15977 |
| .41132 | 34 | .39982 | 2.50115 | .43620 | 2.29254 | 1.09099 | .91660 | 26 | I.15948 |
| .41161 | 35 | .40008 | 2.49948 | .43654 | 2.29073 | 1.09113 | .91648 | 25 | I.15919 |
| .41190 | 36 | .40035 | 2.49782 | .43689 | 2.28891 | 1.09127 | .91636 | 24 | I.15890 |
| .41219 | 37 | .40062 | 2.49616 | .43724 | 2.28710 | 1.09141 | .91625 | 23 | I.15861 |
| .41248 | 38 | .40088 | 2.49450 | .43758 | 2.28528 | 1.09155 | .91613 | 22 | I.15832 |
| .41277 | 39 | .40115 | 2.49284 | .43792 | 2.28346 | 1.09169 | .91601 | 21 | I.15803 |
| .41306 | 40 | .40141 | 2.49117 | .43826 | 2.28164 | 1.09183 | .91590 | 20 | I.15774 |
| .41335 | 41 | .40168 | 2.48954 | .43862 | 2.27987 | 1.09197 | .91578 | 19 | I.15744 |
| .41364 | 42 | .40195 | 2.48789 | .43897 | 2.27806 | 1.09211 | .91566 | 18 | I.15715 |
| .41393 | 43 | .40221 | 2.48626 | .43932 | 2.27626 | 1.09224 | .91555 | 17 | I.15686 |
| .41422 | 44 | .40248 | 2.48459 | .43966 | 2.27447 | 1.09238 | .91543 | 16 | I.15657 |
| .41452 | 45 | .40275 | 2.48295 | .44001 | 2.27267 | 1.09252 | .91531 | 15 | I.15628 |
| .41481 | 46 | .40301 | 2.48131 | .44036 | 2.27088 | 1.09266 | .91519 | 14 | I.15599 |
| .41510 | 47 | .40328 | 2.47967 | .44071 | 2.26909 | 1.09280 | .91508 | 13 | I.15570 |
| .41539 | 48 | .40355 | 2.47804 | .44105 | 2.26730 | 1.09294 | .91496 | 12 | I.15541 |
| .41568 | 49 | .40381 | 2.47640 | .44140 | 2.26551 | 1.09308 | .91484 | 11 | I.15512 |
| .41597 | 50 | .40408 | 2.47476 | .44174 | 2.26372 | 1.09322 | .91472 | 10 | I.15483 |
| .41626 | 51 | .40434 | 2.47314 | .44210 | 2.26196 | 1.09337 | .91461 | 9 | I.15454 |
| .41655 | 52 | .40461 | 2.47152 | .44244 | 2.26018 | 1.09351 | .91449 | 8 | I.15424 |
| .41684 | 53 | .40488 | 2.46989 | .44279 | 2.25840 | 1.09365 | .91437 | 7 | I.15395 |
| .41713 | 54 | .40514 | 2.46827 | .44314 | 2.25663 | 1.09379 | .91425 | 6 | I.15366 |
| .41742 | 55 | .40541 | 2.46665 | .44349 | 2.25486 | 1.09393 | .91414 | 5 | I.15337 |
| .41772 | 56 | .40567 | 2.46504 | .44384 | 2.25309 | 1.09407 | .91402 | 4 | I.15308 |
| .41801 | 57 | .40594 | 2.46342 | .44418 | 2.25132 | 1.09421 | .91390 | 3 | I.15279 |
| .41830 | 58 | .40621 | 2.46181 | .44453 | 2.24955 | 1.09435 | .91378 | 2 | I.15250 |
| .41859 | 59 | .40647 | 2.46020 | .44488 | 2.24778 | 1.09449 | .91366 | 1 | I.15221 |
| .41888 | 60 | .40674 | 2.45859 | .44523 | 2.24604 | 1.09464 | .91355 | 0 | I.15192 |
| | | Cot. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .41888 | 0 | .40974 | 2.45859 | .44523 | 2.24604 | 1.09464 | .91355 | 60 | I.15192 |
| .41917 | 1 | .40700 | 2.45699 | .44558 | 2.24428 | 1.09478 | .91343 | 59 | I.15163 |
| .41946 | 2 | .40727 | 2.45539 | .44593 | 2.24252 | 1.09492 | .91331 | 58 | I.15134 |
| .41975 | 3 | .40753 | 2.45378 | .44627 | 2.24077 | 1.09506 | .91319 | 57 | I.15104 |
| .42004 | 4 | .40780 | 2.45219 | .44662 | 2.23902 | 1.09520 | .91307 | 56 | I.15075 |
| .42033 | 5 | .40806 | 2.45059 | .44697 | 2.23727 | 1.09535 | .91295 | 55 | I.15046 |
| .42062 | 6 | .40833 | 2.44900 | .44732 | 2.23553 | 1.09549 | .91283 | 54 | I.15017 |
| .42092 | 7 | .40860 | 2.44741 | .44767 | 2.23378 | 1.09563 | .91272 | 53 | I.14988 |
| .42121 | 8 | .40886 | 2.44582 | .44802 | 2.23204 | 1.09577 | .91260 | 52 | I.14959 |
| .42150 | 9 | .40913 | 2.44423 | .44837 | 2.23030 | 1.09592 | .91248 | 51 | I.14930 |
| .42179 | 10 | .40939 | 2.44264 | .44872 | 2.22857 | 1.09606 | .91236 | 50 | I.14901 |
| .42208 | 11 | .40966 | 2.44106 | .44907 | 2.22683 | 1.09620 | .91224 | 49 | I.14872 |
| .42237 | 12 | .40992 | 2.43948 | .44942 | 2.22510 | 1.09635 | .91212 | 48 | I.14843 |
| .42266 | 13 | .41019 | 2.43790 | .44977 | 2.22337 | 1.09649 | .91200 | 47 | I.14814 |
| .42295 | 14 | .41045 | 2.43633 | .45012 | 2.22164 | 1.09663 | .91188 | 46 | I.14784 |
| .42324 | 15 | .41072 | 2.43476 | .45047 | 2.21992 | 1.09678 | .91176 | 45 | I.14755 |
| .42353 | 16 | .41098 | 2.43318 | .45082 | 2.21819 | 1.09692 | .91164 | 44 | I.14726 |
| .42382 | 17 | .41125 | 2.43162 | .45117 | 2.21647 | 1.09707 | .91152 | 43 | I.14697 |
| .42412 | 18 | .41151 | 2.43005 | .45152 | 2.21475 | 1.09721 | .91140 | 42 | I.14668 |
| .42441 | 19 | .41178 | 2.42848 | .45187 | 2.21304 | 1.09735 | .91128 | 41 | I.14639 |
| .42470 | 20 | .41204 | 2.42692 | .45222 | 2.21132 | 1.09750 | .91116 | 40 | I.14610 |
| .42499 | 21 | .41231 | 2.42536 | .45257 | 2.20961 | 1.09764 | .91104 | 39 | I.14581 |
| .42528 | 22 | .41257 | 2.42380 | .45292 | 2.20790 | 1.09779 | .91092 | 38 | I.14552 |
| .42557 | 23 | .41284 | 2.42225 | .45327 | 2.20619 | 1.09793 | .91080 | 37 | I.14523 |
| .42586 | 24 | .41310 | 2.42070 | .45362 | 2.20449 | 1.09808 | .91068 | 36 | I.14494 |
| .42615 | 25 | .41337 | 2.41914 | .45397 | 2.20278 | 1.09822 | .91056 | 35 | I.14465 |
| .42644 | 26 | .41363 | 2.41760 | .45432 | 2.20108 | 1.09837 | .91044 | 34 | I.14435 |
| .42673 | 27 | .41390 | 2.41605 | .45467 | 2.19938 | 1.09851 | .91032 | 33 | I.14406 |
| .42702 | 28 | .41416 | 2.41450 | .45502 | 2.19769 | 1.09866 | .91020 | 32 | I.14377 |
| .42731 | 29 | .41443 | 2.41296 | .45538 | 2.19599 | 1.09880 | .91008 | 31 | I.14348 |
| .42761 | 30 | .41469 | 2.41142 | .45573 | 2.19430 | 1.09895 | .90996 | 30 | I.14319 |
| .42790 | 31 | .41496 | 2.40988 | .45608 | 2.19261 | 1.09909 | .90984 | 29 | I.14290 |
| .42819 | 32 | .41522 | 2.40835 | .45643 | 2.19092 | 1.09924 | .90972 | 28 | I.14261 |
| .42848 | 33 | .41549 | 2.40681 | .45678 | 2.18923 | 1.09939 | .90960 | 27 | I.14232 |
| .42877 | 34 | .41575 | 2.40528 | .45713 | 2.18755 | 1.09953 | .90948 | 26 | I.14203 |
| .42906 | 35 | .41602 | 2.40375 | .45748 | 2.18587 | 1.09968 | .90936 | 25 | I.14174 |
| .42935 | 36 | .41628 | 2.40222 | .45784 | 2.18419 | 1.09982 | .90924 | 24 | I.14145 |
| .42964 | 37 | .41655 | 2.40070 | .45819 | 2.18251 | 1.09997 | .90911 | 23 | I.14115 |
| .42993 | 38 | .41681 | 2.39918 | .45854 | 2.18084 | 1.10012 | .90899 | 22 | I.14086 |
| .43022 | 39 | .41707 | 2.39766 | .45889 | 2.17916 | 1.10026 | .90887 | 21 | I.14057 |
| .43051 | 40 | .41734 | 2.39614 | .45924 | 2.17749 | 1.10041 | .90875 | 20 | I.14028 |
| .43081 | 41 | .41760 | 2.39462 | .45960 | 2.17582 | 1.10056 | .90863 | 19 | I.13999 |
| .43110 | 42 | .41787 | 2.39311 | .45995 | 2.17416 | 1.10071 | .90851 | 18 | I.13970 |
| .43139 | 43 | .41813 | 2.39159 | .46030 | 2.17249 | 1.10085 | .90839 | 17 | I.13941 |
| .43168 | 44 | .41840 | 2.39008 | .46065 | 2.17083 | 1.10100 | .90826 | 16 | I.13912 |
| .43197 | 45 | .41866 | 2.38857 | .46101 | 2.16917 | 1.10115 | .90814 | 15 | I.13883 |
| .43226 | 46 | .41892 | 2.38707 | .46136 | 2.16751 | 1.10130 | .90802 | 14 | I.13854 |
| .43255 | 47 | .41919 | 2.38556 | .46171 | 2.16585 | 1.10144 | .90790 | 13 | I.13825 |
| .43284 | 48 | .41945 | 2.38406 | .46206 | 2.16420 | 1.10159 | .90778 | 12 | I.13795 |
| .43313 | 49 | .41972 | 2.38256 | .46242 | 2.16255 | 1.10174 | .90766 | 11 | I.13766 |
| .43342 | 50 | .41998 | 2.38107 | .46277 | 2.16090 | 1.10189 | .90753 | 10 | I.13737 |
| .43371 | 51 | .42024 | 2.37957 | .46312 | 2.15925 | 1.10204 | .90741 | 9 | I.13708 |
| .43401 | 52 | .42051 | 2.37808 | .46348 | 2.15760 | 1.10218 | .90729 | 8 | I.13679 |
| .43430 | 53 | .42077 | 2.37658 | .46383 | 2.15596 | 1.10233 | .90717 | 7 | I.13650 |
| .43459 | 54 | .42104 | 2.37509 | .46418 | 2.15432 | 1.10248 | .90704 | 6 | I.13621 |
| .43488 | 55 | .42130 | 2.37361 | .46454 | 2.15268 | 1.10263 | .90692 | 5 | I.13592 |
| .43517 | 56 | .42156 | 2.37212 | .46489 | 2.15104 | 1.10278 | .90680 | 4 | I.13563 |
| .43546 | 57 | .42183 | 2.37064 | .46525 | 2.14940 | 1.10293 | .90668 | 3 | I.13534 |
| .43575 | 58 | .42209 | 2.36916 | .46560 | 2.14777 | 1.10308 | .90655 | 2 | I.13505 |
| .43604 | 59 | .42235 | 2.36768 | .46595 | 2.14614 | 1.10323 | .90643 | 1 | I.13475 |
| .43633 | 60 | .42262 | 2.36620 | .46631 | 2.14451 | 1.10338 | .90631 | 0 | I.13446 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .43633 | 0 | .42262 | 2.36620 | .46631 | 2.14451 | 1.10338 | .90636 | 60 | 1.13446 |
| .43662 | 1 | .42288 | 2.36473 | .46666 | 2.14288 | 1.10353 | .90618 | 59 | 1.13417 |
| .43691 | 2 | .42315 | 2.36325 | .46702 | 2.14125 | 1.10368 | .90606 | 58 | 1.13388 |
| .43720 | 3 | .42341 | 2.36178 | .46737 | 2.13963 | 1.10383 | .90594 | 57 | 1.13359 |
| .43750 | 4 | .42367 | 2.36031 | .46772 | 2.13801 | 1.10398 | .90582 | 56 | 1.13330 |
| .43779 | 5 | .42394 | 2.35885 | .46808 | 2.13639 | 1.10413 | .90569 | 55 | 1.13301 |
| .43808 | 6 | .42420 | 2.35738 | .46843 | 2.13477 | 1.10428 | .90557 | 54 | 1.13272 |
| .43837 | 7 | .42446 | 2.35592 | .46879 | 2.13316 | 1.10443 | .90545 | 53 | 1.13243 |
| .43866 | 8 | .42473 | 2.35446 | .46914 | 2.13154 | 1.10458 | .90532 | 52 | 1.13214 |
| .43895 | 9 | .42499 | 2.35300 | .46950 | 2.12993 | 1.10473 | .90520 | 51 | 1.13185 |
| .43924 | 10 | .42525 | 2.35154 | .46985 | 2.12832 | 1.10488 | .90507 | 50 | 1.13156 |
| .43953 | 11 | .42552 | 2.35009 | .47021 | 2.12671 | 1.10503 | .90495 | 49 | 1.13126 |
| .43982 | 12 | .42578 | 2.34863 | .47056 | 2.12511 | 1.10518 | .90483 | 48 | 1.13097 |
| .44011 | 13 | .42604 | 2.34718 | .47092 | 2.12350 | 1.10533 | .90470 | 47 | 1.13068 |
| .44040 | 14 | .42631 | 2.34573 | .47128 | 2.12190 | 1.10549 | .90458 | 46 | 1.13039 |
| .44070 | 15 | .42657 | 2.34429 | .47163 | 2.12030 | 1.10564 | .90446 | 45 | 1.13010 |
| .44099 | 16 | .42683 | 2.34284 | .47199 | 2.11871 | 1.10579 | .90433 | 44 | 1.12981 |
| .44128 | 17 | .42709 | 2.34140 | .47234 | 2.11711 | 1.10594 | .90421 | 43 | 1.12952 |
| .44157 | 18 | .42736 | 2.33996 | .47270 | 2.11552 | 1.10609 | .90408 | 42 | 1.12923 |
| .44186 | 19 | .42762 | 2.33852 | .47305 | 2.11392 | 1.10625 | .90396 | 41 | 1.12894 |
| .44215 | 20 | .42788 | 2.33708 | .47341 | 2.11233 | 1.10640 | .90383 | 40 | 1.12865 |
| .44244 | 21 | .42815 | 2.33565 | .47377 | 2.11075 | 1.10655 | .90371 | 39 | 1.12836 |
| .44273 | 22 | .42841 | 2.33422 | .47412 | 2.10916 | 1.10670 | .90358 | 38 | 1.12806 |
| .44302 | 23 | .42867 | 2.33278 | .47448 | 2.10758 | 1.10686 | .90346 | 37 | 1.12777 |
| .44331 | 24 | .42894 | 2.33135 | .47483 | 2.10600 | 1.10701 | .90334 | 36 | 1.12748 |
| .44360 | 25 | .42920 | 2.32993 | .47519 | 2.10442 | 1.10716 | .90321 | 35 | 1.12719 |
| .44390 | 26 | .42946 | 2.32850 | .47555 | 2.10284 | 1.10731 | .90309 | 34 | 1.12690 |
| .44419 | 27 | .42972 | 2.32708 | .47590 | 2.10126 | 1.10747 | .90296 | 33 | 1.12661 |
| .44448 | 28 | .42999 | 2.32566 | .47626 | 2.09969 | 1.10762 | .90284 | 32 | 1.12632 |
| .44477 | 29 | .43025 | 2.32424 | .47662 | 2.09811 | 1.10777 | .90271 | 31 | 1.12603 |
| .44506 | 30 | .43051 | 2.32282 | .47698 | 2.09654 | 1.10793 | .90259 | 30 | 1.12574 |
| .44535 | 31 | .43077 | 2.32140 | .47733 | 2.09498 | 1.10808 | .90246 | 29 | 1.12545 |
| .44564 | 32 | .43104 | 2.31999 | .47769 | 2.09341 | 1.10824 | .90233 | 28 | 1.12516 |
| .44593 | 33 | .43130 | 2.31858 | .47805 | 2.09184 | 1.10839 | .90221 | 27 | 1.12486 |
| .44622 | 34 | .43156 | 2.31717 | .47840 | 2.09028 | 1.10854 | .90208 | 26 | 1.12457 |
| .44651 | 35 | .43182 | 2.31576 | .47876 | 2.08872 | 1.10870 | .90196 | 25 | 1.12428 |
| .44680 | 36 | .43209 | 2.31436 | .47912 | 2.08716 | 1.10885 | .90183 | 24 | 1.12399 |
| .44710 | 37 | .43235 | 2.31295 | .47948 | 2.08560 | 1.10901 | .90171 | 23 | 1.12370 |
| .44739 | 38 | .43261 | 2.31155 | .47984 | 2.08405 | 1.10916 | .90158 | 22 | 1.12341 |
| .44768 | 39 | .43287 | 2.31015 | .48019 | 2.08250 | 1.10932 | .90146 | 21 | 1.12312 |
| .44797 | 40 | .43313 | 2.30875 | .48055 | 2.08094 | 1.10947 | .90133 | 20 | 1.12283 |
| .44826 | 41 | .43340 | 2.30735 | .48091 | 2.07939 | 1.10963 | .90120 | 19 | 1.12254 |
| .44855 | 42 | .43366 | 2.30596 | .48127 | 2.07785 | 1.10978 | .90108 | 18 | 1.12225 |
| .44884 | 43 | .43392 | 2.30457 | .48163 | 2.07630 | 1.10994 | .90095 | 17 | 1.12196 |
| .44913 | 44 | .43418 | 2.30318 | .48198 | 2.07476 | 1.11009 | .90082 | 16 | 1.12166 |
| .44942 | 45 | .43445 | 2.30179 | .48234 | 2.07321 | 1.11025 | .90070 | 15 | 1.12137 |
| .44971 | 46 | .43471 | 2.30040 | .48270 | 2.07167 | 1.11041 | .90057 | 14 | 1.12108 |
| .45000 | 47 | .43497 | 2.29901 | .48306 | 2.07014 | 1.11056 | .90045 | 13 | 1.12079 |
| .45029 | 48 | .43523 | 2.29763 | .48342 | 2.06860 | 1.11072 | .90032 | 12 | 1.12050 |
| .45059 | 49 | .43549 | 2.29625 | .48378 | 2.06706 | 1.11087 | .90019 | 11 | 1.12021 |
| .45088 | 50 | .43575 | 2.29487 | .48414 | 2.06553 | 1.11103 | .90007 | 10 | 1.11992 |
| .45117 | 51 | .43602 | 2.29349 | .48450 | 2.06400 | 1.11119 | .89994 | 9 | 1.11963 |
| .45146 | 52 | .43628 | 2.29211 | .48486 | 2.06247 | 1.11134 | .89981 | 8 | 1.11934 |
| .45175 | 53 | .43654 | 2.29074 | .48521 | 2.06094 | 1.11150 | .89968 | 7 | 1.11905 |
| .45204 | 54 | .43680 | 2.28937 | .48557 | 2.05942 | 1.11166 | .89956 | 6 | 1.11876 |
| .45233 | 55 | .43706 | 2.28800 | .48593 | 2.05790 | 1.11181 | .89943 | 5 | 1.11847 |
| .45262 | 56 | .43733 | 2.28663 | .48629 | 2.05637 | 1.11197 | .89930 | 4 | 1.11817 |
| .45291 | 57 | .43759 | 2.28526 | .48665 | 2.05485 | 1.11213 | .89918 | 3 | 1.11788 |
| .45320 | 58 | .43785 | 2.28390 | .48701 | 2.05333 | 1.11229 | .89905 | 2 | 1.11759 |
| .45349 | 59 | .43811 | 2.28253 | .48737 | 2.05182 | 1.11244 | .89892 | 1 | 1.11730 |
| .45379 | 60 | .43837 | 2.28117 | .48773 | 2.05030 | 1.11260 | .89879 | 0 | 1.11701 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|----------|--------|----|---------|
| .45379 | 0 | .4337 | 2.28117 | .48773 | 2.05030 | I.II260 | .89879 | 60 | I.II701 |
| .45408 | 1 | .43863 | 2.27981 | .48809 | 2.04879 | I.II276 | .89867 | 59 | I.II672 |
| .45437 | 2 | .43889 | 2.27845 | .48845 | 2.04728 | I.II292 | .89854 | 58 | I.II643 |
| .45466 | 3 | .43916 | 2.27710 | .48881 | 2.04577 | I.II308 | .89841 | 57 | I.II614 |
| .45495 | 4 | .43942 | 2.27574 | .48917 | 2.04426 | I.II323 | .89828 | 56 | I.II585 |
| .45524 | 5 | .43968 | 2.27439 | .48953 | 2.04276 | I.II339 | .89816 | 55 | I.II556 |
| .45553 | 6 | .43994 | 2.27304 | .48989 | 2.04125 | I.II355 | .89803 | 54 | I.II527 |
| .45582 | 7 | .44020 | 2.27169 | .49026 | 2.03975 | I.II371 | .89790 | 53 | I.II497 |
| .45611 | 8 | .44046 | 2.27035 | .49062 | 2.03825 | I.II387 | .89777 | 52 | I.II468 |
| .45640 | 9 | .44072 | 2.26900 | .49098 | 2.03675 | I.II403 | .89764 | 51 | I.II439 |
| .45669 | 10 | .44098 | 2.26766 | .49134 | 2.03526 | I.II419 | .89752 | 50 | I.II410 |
| .45699 | 11 | .44124 | 2.26632 | .49170 | 2.03376 | I.II435 | .89739 | 49 | I.II381 |
| .45728 | 12 | .44151 | 2.26498 | .49206 | 2.03227 | I.II451 | .89726 | 48 | I.II352 |
| .45757 | 13 | .44177 | 2.26364 | .49242 | 2.03078 | I.II467 | .89713 | 47 | I.II323 |
| .45786 | 14 | .44203 | 2.26230 | .49278 | 2.02929 | I.II483 | .89700 | 46 | I.II294 |
| .45815 | 15 | .44229 | 2.26097 | .49315 | 2.02780 | I.II499 | .89687 | 45 | I.II265 |
| .45844 | 16 | .44255 | 2.25963 | .49351 | 2.02631 | I.II515 | .89674 | 44 | I.II236 |
| .45873 | 17 | .44281 | 2.25830 | .49387 | 2.02483 | I.II531 | .89662 | 43 | I.II207 |
| .45902 | 18 | .44307 | 2.25697 | .49423 | 2.02335 | I.II547 | .89649 | 42 | I.II177 |
| .45931 | 19 | .44333 | 2.25565 | .49459 | 2.02187 | I.II563 | .89636 | 41 | I.II148 |
| .45960 | 20 | .44359 | 2.25432 | .49495 | 2.02039 | I.II579 | .89623 | 40 | I.II119 |
| .45989 | 21 | .44385 | 2.25300 | .49532 | 2.01891 | I.II595 | .89610 | 39 | I.II090 |
| .46019 | 22 | .44411 | 2.25167 | .49568 | 2.01743 | I.II611 | .89597 | 38 | I.II061 |
| .46048 | 23 | .44437 | 2.25035 | .49604 | 2.01596 | I.II627 | .89584 | 37 | I.II032 |
| .46077 | 24 | .44464 | 2.24903 | .49640 | 2.01449 | I.II643 | .89571 | 36 | I.II003 |
| .46106 | 25 | .44490 | 2.24772 | .49677 | 2.01302 | I.II659 | .89558 | 35 | I.I0974 |
| .46135 | 26 | .44516 | 2.24640 | .49713 | 2.01155 | I.II675 | .89545 | 34 | I.I0945 |
| .46164 | 27 | .44542 | 2.24509 | .49749 | 2.01008 | I.II691 | .89532 | 33 | I.I0916 |
| .46193 | 28 | .44568 | 2.24378 | .49786 | 2.00862 | I.II708 | .89519 | 32 | I.I0887 |
| .46222 | 29 | .44594 | 2.24247 | .49822 | 2.00715 | I.II724 | .89506 | 31 | I.I0857 |
| .46251 | 30 | .44620 | 2.24116 | .49858 | 2.00569 | I.II740 | .89493 | 30 | I.I0828 |
| .46280 | 31 | .44646 | 2.23985 | .49894 | 2.00423 | I.II756 | .89480 | 29 | I.I0799 |
| .46309 | 32 | .44672 | 2.23855 | .49931 | 2.00277 | I.II772 | .89467 | 28 | I.I0770 |
| .46338 | 33 | .44698 | 2.23724 | .49967 | 2.00131 | I.II789 | .89454 | 27 | I.I0741 |
| .46368 | 34 | .44724 | 2.23594 | .50004 | 1.99986 | I.II805 | .89441 | 26 | I.I0712 |
| .46397 | 35 | .44750 | 2.23464 | .50040 | 1.99841 | I.II821 | .89428 | 25 | I.I0683 |
| .46426 | 36 | .44776 | 2.23334 | .50076 | 1.99695 | I.II838 | .89415 | 24 | I.I0654 |
| .46455 | 37 | .44802 | 2.23205 | .50113 | 1.99550 | I.II854 | .89402 | 23 | I.I0625 |
| .46484 | 38 | .44828 | 2.23075 | .50149 | 1.99406 | I.II870 | .89389 | 22 | I.I0596 |
| .46513 | 39 | .44854 | 2.22946 | .50185 | 1.99261 | I.II886 | .89376 | 21 | I.I0567 |
| .46542 | 40 | .44880 | 2.22816 | .50222 | 1.99116 | I.II903 | .89363 | 20 | I.I0538 |
| .46571 | 41 | .44906 | 2.22686 | .50258 | 1.98972 | I.II919 | .89350 | 19 | I.I0508 |
| .46600 | 42 | .44932 | 2.22559 | .50295 | 1.98828 | I.II936 | .89337 | 18 | I.I0479 |
| .46629 | 43 | .44958 | 2.22430 | .50331 | 1.98684 | I.II952 | .89324 | 17 | I.I0450 |
| .46658 | 44 | .44984 | 2.22302 | .50368 | 1.98540 | I.II968 | .89311 | 16 | I.I0421 |
| .46688 | 45 | .45010 | 2.22174 | .50404 | 1.98396 | I.II985 | .89298 | 15 | I.I0392 |
| .46717 | 46 | .45036 | 2.22045 | .50441 | 1.98253 | I.II2001 | .89285 | 14 | I.I0363 |
| .46746 | 47 | .45062 | 2.21918 | .50477 | 1.98110 | I.II2018 | .89272 | 13 | I.I0334 |
| .46775 | 48 | .45088 | 2.21790 | .50514 | 1.97966 | I.II2034 | .89259 | 12 | I.I0305 |
| .46804 | 49 | .45114 | 2.21662 | .50550 | 1.97823 | I.II2051 | .89246 | 11 | I.I0276 |
| .46833 | 50 | .45140 | 2.21535 | .50586 | 1.97680 | I.II2067 | .89233 | 10 | I.I0247 |
| .46862 | 51 | .45166 | 2.21407 | .50623 | 1.97538 | I.II2083 | .89219 | 9 | I.I0218 |
| .46891 | 52 | .45192 | 2.21280 | .50660 | 1.97395 | I.II2100 | .89206 | 8 | I.I0188 |
| .46920 | 53 | .45218 | 2.21153 | .50696 | 1.97253 | I.II2117 | .89193 | 7 | I.I0159 |
| .46949 | 54 | .45243 | 2.21026 | .50733 | 1.97111 | I.II2133 | .89180 | 6 | I.I0130 |
| .46978 | 55 | .45269 | 2.20900 | .50769 | 1.96969 | I.II2150 | .89167 | 5 | I.I0101 |
| .47008 | 56 | .45295 | 2.20773 | .50806 | 1.96827 | I.II2166 | .89153 | 4 | I.I0072 |
| .47037 | 57 | .45321 | 2.20647 | .50843 | 1.96685 | I.II2183 | .89140 | 3 | I.I0043 |
| .47066 | 58 | .45347 | 2.20521 | .50879 | 1.96544 | I.II2199 | .89127 | 2 | I.I0014 |
| .47095 | 59 | .45373 | 2.20395 | .50916 | 1.96402 | I.II2216 | .89114 | 1 | I.09985 |
| .47124 | 60 | .45399 | 2.20269 | .50953 | 1.96261 | I.II2233 | .89101 | 0 | I.09956 |
| | | Cot. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .47124 | 0 | .45399 | 2.20269 | .50953 | 1.96261 | 1.12233 | .89171 | 60 | 1.09956 |
| .47153 | 1 | .45425 | 2.20143 | .50989 | 1.96120 | 1.12249 | .89087 | 59 | 1.09927 |
| .47182 | 2 | .45451 | 2.20018 | .51026 | 1.95979 | 1.12266 | .89074 | 58 | 1.09898 |
| .47211 | 3 | .45477 | 2.19892 | .51063 | 1.95838 | 1.12283 | .89061 | 57 | 1.09868 |
| .47240 | 4 | .45503 | 2.19767 | .51099 | 1.95698 | 1.12299 | .89048 | 56 | 1.09839 |
| .47269 | 5 | .45529 | 2.19642 | .51136 | 1.95557 | 1.12316 | .89035 | 55 | 1.09810 |
| .47298 | 6 | .45554 | 2.19517 | .51173 | 1.95417 | 1.12333 | .89021 | 54 | 1.09781 |
| .47328 | 7 | .45580 | 2.19393 | .51209 | 1.95277 | 1.12349 | .89008 | 53 | 1.09752 |
| .47357 | 8 | .45606 | 2.19268 | .51246 | 1.95137 | 1.12366 | .88995 | 52 | 1.09723 |
| .47386 | 9 | .45632 | 2.19144 | .51283 | 1.94997 | 1.12383 | .88981 | 51 | 1.09694 |
| .47415 | 10 | .45658 | 2.19019 | .51319 | 1.94858 | 1.12400 | .88968 | 50 | 1.09665 |
| .47444 | 11 | .45684 | 2.18895 | .51356 | 1.94718 | 1.12416 | .88955 | 49 | 1.09636 |
| .47473 | 12 | .45710 | 2.18772 | .51393 | 1.94579 | 1.12433 | .88942 | 48 | 1.09607 |
| .47502 | 13 | .45736 | 2.18648 | .51430 | 1.94440 | 1.12450 | .88928 | 47 | 1.09578 |
| .47531 | 14 | .45762 | 2.18524 | .51467 | 1.94301 | 1.12467 | .88915 | 46 | 1.09548 |
| .47560 | 15 | .45787 | 2.18401 | .51503 | 1.94162 | 1.12484 | .88902 | 45 | 1.09519 |
| .47589 | 16 | .45813 | 2.18277 | .51540 | 1.94023 | 1.12501 | .88888 | 44 | 1.09490 |
| .47618 | 17 | .45839 | 2.18154 | .51577 | 1.93885 | 1.12518 | .88875 | 43 | 1.09461 |
| .47647 | 18 | .45865 | 2.18031 | .51614 | 1.93746 | 1.12534 | .88862 | 42 | 1.09432 |
| .47677 | 19 | .45891 | 2.17909 | .51651 | 1.93609 | 1.12551 | .88848 | 41 | 1.09403 |
| .47706 | 20 | .45917 | 2.17786 | .51688 | 1.93472 | 1.12568 | .88835 | 40 | 1.09374 |
| .47735 | 21 | .45942 | 2.17663 | .51724 | 1.93332 | 1.12585 | .88822 | 39 | 1.09345 |
| .47764 | 22 | .45968 | 2.17541 | .51761 | 1.93195 | 1.12602 | .88808 | 38 | 1.09316 |
| .47793 | 23 | .45994 | 2.17419 | .51798 | 1.93057 | 1.12619 | .88795 | 37 | 1.09287 |
| .47822 | 24 | .46020 | 2.17297 | .51835 | 1.92920 | 1.12636 | .88782 | 36 | 1.09258 |
| .47851 | 25 | .46046 | 2.17175 | .51872 | 1.92782 | 1.12653 | .88768 | 35 | 1.09229 |
| .47880 | 26 | .46072 | 2.17053 | .51909 | 1.92645 | 1.12670 | .88755 | 34 | 1.09199 |
| .47909 | 27 | .46097 | 2.16932 | .51946 | 1.92508 | 1.12687 | .88741 | 33 | 1.09170 |
| .47938 | 28 | .46123 | 2.16810 | .51983 | 1.92371 | 1.12704 | .88728 | 32 | 1.09141 |
| .47967 | 29 | .46149 | 2.16689 | .52020 | 1.92235 | 1.12721 | .88715 | 31 | 1.09112 |
| .47997 | 30 | .46175 | 2.16568 | .52057 | 1.92098 | 1.12738 | .88701 | 30 | 1.09083 |
| .48026 | 31 | .46201 | 2.16447 | .52094 | 1.91962 | 1.12755 | .88688 | 29 | 1.09054 |
| .48055 | 32 | .46226 | 2.16326 | .52131 | 1.91826 | 1.12772 | .88674 | 28 | 1.09025 |
| .48084 | 33 | .46252 | 2.16206 | .52168 | 1.91690 | 1.12789 | .88661 | 27 | 1.08996 |
| .48113 | 34 | .46278 | 2.16085 | .52205 | 1.91554 | 1.12807 | .88647 | 26 | 1.08967 |
| .48142 | 35 | .46304 | 2.15965 | .52242 | 1.91418 | 1.12824 | .88634 | 25 | 1.08938 |
| .48171 | 36 | .46330 | 2.15845 | .52279 | 1.91282 | 1.12841 | .88620 | 24 | 1.08909 |
| .48200 | 37 | .46355 | 2.15725 | .52316 | 1.91147 | 1.12858 | .88607 | 23 | 1.08879 |
| .48229 | 38 | .46381 | 2.15605 | .52353 | 1.91012 | 1.12875 | .88593 | 22 | 1.08850 |
| .48258 | 39 | .46407 | 2.15485 | .52390 | 1.90877 | 1.12892 | .88580 | 21 | 1.08821 |
| .48287 | 40 | .46433 | 2.15366 | .52427 | 1.90741 | 1.12910 | .88566 | 20 | 1.08792 |
| .48317 | 41 | .46458 | 2.15246 | .52464 | 1.90607 | 1.12927 | .88553 | 19 | 1.08763 |
| .48346 | 42 | .46484 | 2.15127 | .52501 | 1.90472 | 1.12944 | .88539 | 18 | 1.08734 |
| .48375 | 43 | .46510 | 2.15008 | .52538 | 1.90337 | 1.12961 | .88526 | 17 | 1.08705 |
| .48404 | 44 | .46536 | 2.14889 | .52575 | 1.90203 | 1.12979 | .88512 | 16 | 1.08676 |
| .48433 | 45 | .46561 | 2.14770 | .52613 | 1.90069 | 1.12996 | .88499 | 15 | 1.08647 |
| .48462 | 46 | .46587 | 2.14651 | .52650 | 1.89935 | 1.13013 | .88485 | 14 | 1.08618 |
| .48491 | 47 | .46613 | 2.14533 | .52687 | 1.89801 | 1.13031 | .88472 | 13 | 1.08589 |
| .48520 | 48 | .46639 | 2.14414 | .52724 | 1.89667 | 1.13048 | .88458 | 12 | 1.08559 |
| .48549 | 49 | .46664 | 2.14295 | .52761 | 1.89533 | 1.13065 | .88445 | 11 | 1.08530 |
| .48578 | 50 | .46690 | 2.14178 | .52798 | 1.89400 | 1.13082 | .88432 | 10 | 1.08501 |
| .48607 | 51 | .46716 | 2.14060 | .52836 | 1.89266 | 1.13100 | .88417 | 9 | 1.08472 |
| .48637 | 52 | .46742 | 2.13942 | .52873 | 1.89133 | 1.13117 | .88404 | 8 | 1.08443 |
| .48666 | 53 | .46767 | 2.13825 | .52910 | 1.89000 | 1.13135 | .88390 | 7 | 1.08414 |
| .48695 | 54 | .46793 | 2.13707 | .52947 | 1.88867 | 1.13152 | .88377 | 6 | 1.08385 |
| .48724 | 55 | .46819 | 2.13590 | .52985 | 1.88734 | 1.13170 | .88363 | 5 | 1.08356 |
| .48753 | 56 | .46844 | 2.13473 | .53022 | 1.88602 | 1.13187 | .88349 | 4 | 1.08327 |
| .48782 | 57 | .46870 | 2.13356 | .53059 | 1.88469 | 1.13205 | .88336 | 3 | 1.08298 |
| .48811 | 58 | .46896 | 2.13239 | .53096 | 1.88337 | 1.13222 | .88322 | 2 | 1.08269 |
| .48840 | 59 | .46921 | 2.13122 | .53134 | 1.88205 | 1.13239 | .88308 | 1 | 1.08240 |
| .48869 | 60 | .46947 | 2.13005 | .53171 | 1.88073 | 1.13257 | .88295 | 0 | 1.08210 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .48869 | 0 | .46947 | 2.13005 | .53171 | 1.88073 | 1.13257 | .88295 | 60 | 1.08210 |
| .48898 | 1 | .46973 | 2.12889 | .53208 | 1.87941 | 1.13275 | .88281 | 59 | 1.08181 |
| .48927 | 2 | .46999 | 2.12773 | .53246 | 1.87809 | 1.13292 | .88267 | 58 | 1.08152 |
| .48956 | 3 | .47024 | 2.12657 | .53283 | 1.87677 | 1.13310 | .88254 | 57 | 1.08123 |
| .48986 | 4 | .47050 | 2.12540 | .53320 | 1.87546 | 1.13327 | .88240 | 56 | 1.08094 |
| .49015 | 5 | .47076 | 2.12425 | .53358 | 1.87415 | 1.13345 | .88226 | 55 | 1.08065 |
| .49044 | 6 | .47101 | 2.12309 | .53395 | 1.87283 | 1.13362 | .88213 | 54 | 1.08036 |
| .49073 | 7 | .47127 | 2.12193 | .53432 | 1.87152 | 1.13380 | .88199 | 53 | 1.08007 |
| .49102 | 8 | .47153 | 2.12078 | .53470 | 1.87021 | 1.13398 | .88185 | 52 | 1.07978 |
| .49131 | 9 | .47178 | 2.11963 | .53507 | 1.86891 | 1.13415 | .88172 | 51 | 1.07949 |
| .49160 | 10 | .47204 | 2.11847 | .53545 | 1.86760 | 1.13433 | .88158 | 50 | 1.07920 |
| .49189 | 11 | .47229 | 2.11732 | .53582 | 1.86630 | 1.13451 | .88144 | 49 | 1.07890 |
| .49218 | 12 | .47255 | 2.11617 | .53620 | 1.86499 | 1.13468 | .88130 | 48 | 1.07861 |
| .49247 | 13 | .47281 | 2.11503 | .53657 | 1.86369 | 1.13486 | .88117 | 47 | 1.07832 |
| .49276 | 14 | .47306 | 2.11388 | .53694 | 1.86239 | 1.13504 | .88103 | 46 | 1.07803 |
| .49306 | 15 | .47332 | 2.11274 | .53732 | 1.86109 | 1.13521 | .88089 | 45 | 1.07774 |
| .49335 | 16 | .47358 | 2.11159 | .53769 | 1.85979 | 1.13539 | .88075 | 44 | 1.07745 |
| .49364 | 17 | .47383 | 2.11045 | .53807 | 1.85850 | 1.13557 | .88062 | 43 | 1.07716 |
| .49393 | 18 | .47409 | 2.10931 | .53844 | 1.85720 | 1.13575 | .88048 | 42 | 1.07687 |
| .49422 | 19 | .47434 | 2.10817 | .53882 | 1.85591 | 1.13593 | .88034 | 41 | 1.07658 |
| .49451 | 20 | .47460 | 2.10704 | .53920 | 1.85462 | 1.13610 | .88020 | 40 | 1.07629 |
| .49480 | 21 | .47486 | 2.10590 | .53957 | 1.85333 | 1.13628 | .88006 | 39 | 1.07600 |
| .49509 | 22 | .47511 | 2.10477 | .53995 | 1.85204 | 1.13646 | .87993 | 38 | 1.07571 |
| .49538 | 23 | .47537 | 2.10363 | .54032 | 1.85075 | 1.13664 | .87979 | 37 | 1.07541 |
| .49567 | 24 | .47562 | 2.10250 | .54070 | 1.84946 | 1.13682 | .87965 | 36 | 1.07512 |
| .49596 | 25 | .47588 | 2.10137 | .54107 | 1.84818 | 1.13700 | .87951 | 35 | 1.07483 |
| .49626 | 26 | .47614 | 2.10024 | .54145 | 1.84689 | 1.13718 | .87937 | 34 | 1.07454 |
| .49655 | 27 | .47639 | 2.09911 | .54183 | 1.84561 | 1.13735 | .87923 | 33 | 1.07425 |
| .49684 | 28 | .47665 | 2.09799 | .54220 | 1.84433 | 1.13753 | .87909 | 32 | 1.07396 |
| .49713 | 29 | .47690 | 2.09686 | .54258 | 1.84305 | 1.13771 | .87896 | 31 | 1.07367 |
| .49742 | 30 | .47716 | 2.09574 | .54296 | 1.84177 | 1.13789 | .87882 | 30 | 1.07338 |
| .49771 | 31 | .47741 | 2.09462 | .54333 | 1.84049 | 1.13807 | .87868 | 29 | 1.07309 |
| .49800 | 32 | .47767 | 2.09350 | .54371 | 1.83922 | 1.13825 | .87854 | 28 | 1.07280 |
| .49829 | 33 | .47793 | 2.09238 | .54409 | 1.83794 | 1.13843 | .87840 | 27 | 1.07250 |
| .49858 | 34 | .47818 | 2.09126 | .54446 | 1.83667 | 1.13861 | .87826 | 26 | 1.07221 |
| .49887 | 35 | .47844 | 2.09014 | .54484 | 1.83540 | 1.13879 | .87812 | 25 | 1.07192 |
| .49916 | 36 | .47869 | 2.08903 | .54522 | 1.83413 | 1.13897 | .87798 | 24 | 1.07163 |
| .49946 | 37 | .47895 | 2.08791 | .54560 | 1.83286 | 1.13916 | .87784 | 23 | 1.07134 |
| .49975 | 38 | .47920 | 2.08680 | .54597 | 1.83159 | 1.13934 | .87770 | 22 | 1.07105 |
| .50004 | 39 | .47946 | 2.08569 | .54635 | 1.83033 | 1.13952 | .87756 | 21 | 1.07076 |
| .50033 | 40 | .47971 | 2.08457 | .54673 | 1.82907 | 1.13970 | .87742 | 20 | 1.07047 |
| .50062 | 41 | .48000 | 2.08346 | .54711 | 1.82781 | 1.13988 | .87728 | 19 | 1.07018 |
| .50091 | 42 | .48022 | 2.08236 | .54748 | 1.82654 | 1.14006 | .87715 | 18 | 1.06989 |
| .50120 | 43 | .48048 | 2.08126 | .54786 | 1.82528 | 1.14024 | .87701 | 17 | 1.06960 |
| .50149 | 44 | .48073 | 2.08015 | .54824 | 1.82402 | 1.14042 | .87687 | 16 | 1.06931 |
| .50178 | 45 | .48099 | 2.07905 | .54862 | 1.82276 | 1.14061 | .87673 | 15 | 1.06901 |
| .50207 | 46 | .48124 | 2.07795 | .54900 | 1.82150 | 1.14079 | .87659 | 14 | 1.06872 |
| .50236 | 47 | .48150 | 2.07685 | .54938 | 1.82025 | 1.14097 | .87645 | 13 | 1.06843 |
| .50265 | 48 | .48175 | 2.07575 | .54975 | 1.81899 | 1.14115 | .87631 | 12 | 1.06814 |
| .50295 | 49 | .48201 | 2.07465 | .55013 | 1.81774 | 1.14133 | .87617 | 11 | 1.06785 |
| .50324 | 50 | .48226 | 2.07355 | .55051 | 1.81649 | 1.14151 | .87603 | 10 | 1.06756 |
| .50353 | 51 | .48252 | 2.07246 | .55089 | 1.81524 | 1.14170 | .87589 | 9 | 1.06727 |
| .50382 | 52 | .48277 | 2.07137 | .55127 | 1.81399 | 1.14188 | .87575 | 8 | 1.06698 |
| .50411 | 53 | .48303 | 2.07027 | .55165 | 1.81274 | 1.14207 | .87561 | 7 | 1.06669 |
| .50440 | 54 | .48328 | 2.06918 | .55203 | 1.81150 | 1.14225 | .87546 | 6 | 1.06640 |
| .50469 | 55 | .48354 | 2.06809 | .55241 | 1.81025 | 1.14243 | .87532 | 5 | 1.06611 |
| .50498 | 56 | .48379 | 2.06701 | .55279 | 1.80901 | 1.14262 | .87518 | 4 | 1.06581 |
| .50527 | 57 | .48405 | 2.06592 | .55317 | 1.80777 | 1.14280 | .87504 | 3 | 1.06552 |
| .50556 | 58 | .48430 | 2.06483 | .55355 | 1.80653 | 1.14299 | .87490 | 2 | 1.06523 |
| .50585 | 59 | .48456 | 2.06375 | .55393 | 1.80529 | 1.14317 | .87476 | 1 | 1.06494 |
| .50615 | 60 | .48481 | 2.06267 | .55431 | 1.80405 | 1.14335 | .87462 | 0 | 1.06465 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .50615 | 0 | .48481 | 2.06267 | .55431 | 1.80405 | 1.14335 | .87461 | 60 | 1.06465 |
| .50644 | 1 | .48506 | 2.06158 | .55469 | 1.80281 | 1.14354 | .87448 | 59 | 1.06436 |
| .50673 | 2 | .48532 | 2.06050 | .55507 | 1.80158 | 1.14372 | .87434 | 58 | 1.06407 |
| .50702 | 3 | .48557 | 2.05942 | .55545 | 1.80034 | 1.14391 | .87420 | 57 | 1.06378 |
| .50731 | 4 | .48583 | 2.05835 | .55583 | 1.79911 | 1.14409 | .87406 | 56 | 1.06349 |
| .50760 | 5 | .48608 | 2.05727 | .55621 | 1.79788 | 1.14428 | .87391 | 55 | 1.06320 |
| .50789 | 6 | .48634 | 2.05619 | .55659 | 1.79665 | 1.14446 | .87377 | 54 | 1.06291 |
| .50818 | 7 | .48659 | 2.05512 | .55697 | 1.79542 | 1.14465 | .87363 | 53 | 1.06261 |
| .50847 | 8 | .48684 | 2.05405 | .55736 | 1.79419 | 1.14483 | .87349 | 52 | 1.06232 |
| .50876 | 9 | .48710 | 2.05298 | .55774 | 1.79296 | 1.14502 | .87335 | 51 | 1.06203 |
| .50905 | 10 | .48735 | 2.05191 | .55812 | 1.79174 | 1.14521 | .87321 | 50 | 1.06174 |
| .50935 | 11 | .48761 | 2.05084 | .55850 | 1.79051 | 1.14539 | .87306 | 49 | 1.06145 |
| .50964 | 12 | .48786 | 2.04977 | .55888 | 1.78929 | 1.14558 | .87292 | 48 | 1.06116 |
| .50993 | 13 | .48811 | 2.04870 | .55926 | 1.78807 | 1.14576 | .87278 | 47 | 1.06087 |
| .51022 | 14 | .48837 | 2.04764 | .55964 | 1.78685 | 1.14595 | .87264 | 46 | 1.06058 |
| .51051 | 15 | .48862 | 2.04657 | .56003 | 1.78563 | 1.14614 | .87250 | 45 | 1.06029 |
| .51080 | 16 | .48888 | 2.04551 | .56041 | 1.78441 | 1.14632 | .87235 | 44 | 1.06000 |
| .51109 | 17 | .48913 | 2.04445 | .56079 | 1.78319 | 1.14651 | .87221 | 43 | 1.05971 |
| .51138 | 18 | .48938 | 2.04339 | .56117 | 1.78198 | 1.14670 | .87207 | 42 | 1.05941 |
| .51167 | 19 | .48964 | 2.04233 | .56156 | 1.78077 | 1.14689 | .87193 | 41 | 1.05912 |
| .51196 | 20 | .48989 | 2.04128 | .56194 | 1.77955 | 1.14707 | .87178 | 40 | 1.05883 |
| .51225 | 21 | .49014 | 2.04022 | .56232 | 1.77834 | 1.14726 | .87164 | 39 | 1.05854 |
| .51255 | 22 | .49040 | 2.03916 | .56270 | 1.77713 | 1.14745 | .87150 | 38 | 1.05825 |
| .51284 | 23 | .49065 | 2.03811 | .56309 | 1.77592 | 1.14764 | .87136 | 37 | 1.05796 |
| .51313 | 24 | .49090 | 2.03706 | .56347 | 1.77471 | 1.14782 | .87121 | 36 | 1.05767 |
| .51342 | 25 | .49116 | 2.03601 | .56385 | 1.77351 | 1.14801 | .87107 | 35 | 1.05738 |
| .51371 | 26 | .49141 | 2.03496 | .56424 | 1.77230 | 1.14820 | .87093 | 34 | 1.05709 |
| .51400 | 27 | .49166 | 2.03391 | .56462 | 1.77110 | 1.14839 | .87079 | 33 | 1.05680 |
| .51429 | 28 | .49192 | 2.03286 | .56501 | 1.76990 | 1.14858 | .87064 | 32 | 1.05651 |
| .51458 | 29 | .49217 | 2.03182 | .56539 | 1.76869 | 1.14877 | .87050 | 31 | 1.05622 |
| .51487 | 30 | .49242 | 2.03077 | .56577 | 1.76749 | 1.14896 | .87036 | 30 | 1.05592 |
| .51516 | 31 | .49267 | 2.02973 | .56616 | 1.76630 | 1.14914 | .87021 | 29 | 1.05563 |
| .51545 | 32 | .49293 | 2.02869 | .56654 | 1.76510 | 1.14933 | .87007 | 28 | 1.05534 |
| .51574 | 33 | .49318 | 2.02765 | .56693 | 1.76390 | 1.14952 | .86993 | 27 | 1.05505 |
| .51604 | 34 | .49344 | 2.02661 | .56731 | 1.76271 | 1.14971 | .86978 | 26 | 1.05476 |
| .51633 | 35 | .49369 | 2.02557 | .56769 | 1.76151 | 1.14990 | .86964 | 25 | 1.05447 |
| .51662 | 36 | .49394 | 2.02453 | .56808 | 1.76032 | 1.15009 | .86949 | 24 | 1.05418 |
| .51691 | 37 | .49419 | 2.02349 | .56846 | 1.75913 | 1.15028 | .86935 | 23 | 1.05389 |
| .51720 | 38 | .49445 | 2.02246 | .56885 | 1.75794 | 1.15047 | .86921 | 22 | 1.05360 |
| .51749 | 39 | .49470 | 2.02143 | .56923 | 1.75675 | 1.15066 | .86906 | 21 | 1.05331 |
| .51778 | 40 | .49495 | 2.02039 | .56962 | 1.75556 | 1.15085 | .86892 | 20 | 1.05302 |
| .51807 | 41 | .49521 | 2.01936 | .57000 | 1.75437 | 1.15105 | .86878 | 19 | 1.05272 |
| .51836 | 42 | .49546 | 2.01833 | .57039 | 1.75319 | 1.15124 | .86863 | 18 | 1.05243 |
| .51865 | 43 | .49571 | 2.01730 | .57078 | 1.75200 | 1.15143 | .86849 | 17 | 1.05214 |
| .51894 | 44 | .49596 | 2.01628 | .57116 | 1.75082 | 1.15162 | .86834 | 16 | 1.05185 |
| .51924 | 45 | .49622 | 2.01525 | .57155 | 1.74964 | 1.15181 | .86820 | 15 | 1.05156 |
| .51953 | 46 | .49647 | 2.01422 | .57193 | 1.74846 | 1.15200 | .86805 | 14 | 1.05127 |
| .51982 | 47 | .49672 | 2.01320 | .57232 | 1.74728 | 1.15219 | .86791 | 13 | 1.05098 |
| .52011 | 48 | .49697 | 2.01218 | .57271 | 1.74610 | 1.15239 | .86777 | 12 | 1.05069 |
| .52040 | 49 | .49723 | 2.01116 | .57309 | 1.74492 | 1.15258 | .86762 | 11 | 1.05040 |
| .52069 | 50 | .49748 | 2.01014 | .57348 | 1.74375 | 1.15277 | .86748 | 10 | 1.05011 |
| .52098 | 51 | .49773 | 2.00912 | .57386 | 1.74257 | 1.15296 | .86733 | 9 | 1.04982 |
| .52127 | 52 | .49798 | 2.00810 | .57425 | 1.74140 | 1.15315 | .86719 | 8 | 1.04952 |
| .52156 | 53 | .49824 | 2.00708 | .57464 | 1.74022 | 1.15335 | .86704 | 7 | 1.04923 |
| .52185 | 54 | .49849 | 2.00607 | .57503 | 1.73905 | 1.15354 | .86690 | 6 | 1.04894 |
| .52214 | 55 | .49874 | 2.00505 | .57541 | 1.73788 | 1.15373 | .86675 | 5 | 1.04865 |
| .52244 | 56 | .49899 | 2.00404 | .57580 | 1.73671 | 1.15393 | .86661 | 4 | 1.04836 |
| .52273 | 57 | .49924 | 2.00303 | .57619 | 1.73555 | 1.15412 | .86646 | 3 | 1.04807 |
| .52302 | 58 | .49950 | 2.00202 | .57657 | 1.73438 | 1.15431 | .86632 | 2 | 1.04778 |
| .52331 | 59 | .49975 | 2.00101 | .57696 | 1.73321 | 1.15451 | .86617 | 1 | 1.04749 |
| .52360 | 60 | .50000 | 2.00000 | .57735 | 1.73205 | 1.15470 | .86603 | 0 | 1.04720 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .52360 | 0 | .50000 | 2.00000 | .57735 | 1.73205 | 1.15470 | .86603 | 60 | 1.04720 |
| .52389 | 1 | .50025 | 1.99899 | .57774 | 1.73089 | 1.15489 | .86588 | 59 | 1.04691 |
| .52418 | 2 | .50050 | 1.99799 | .57813 | 1.72973 | 1.15509 | .86573 | 58 | 1.04662 |
| .52447 | 3 | .50076 | 1.99698 | .57851 | 1.72857 | 1.15528 | .86559 | 57 | 1.04632 |
| .52476 | 4 | .50101 | 1.99598 | .57890 | 1.72741 | 1.15548 | .86544 | 56 | 1.04603 |
| .52505 | 5 | .50126 | 1.99498 | .57929 | 1.72625 | 1.15567 | .86530 | 55 | 1.04574 |
| .52534 | 6 | .50151 | 1.99398 | .57968 | 1.72509 | 1.15587 | .86515 | 54 | 1.04545 |
| .52563 | 7 | .50176 | 1.99298 | .58007 | 1.72393 | 1.15606 | .86501 | 53 | 1.04516 |
| .52593 | 8 | .50201 | 1.99198 | .58046 | 1.72278 | 1.15626 | .86486 | 52 | 1.04487 |
| .52622 | 9 | .50227 | 1.99098 | .58085 | 1.72163 | 1.15645 | .86471 | 51 | 1.04458 |
| .52651 | 10 | .50252 | 1.98998 | .58124 | 1.72047 | 1.15665 | .86457 | 50 | 1.04429 |
| .52680 | 11 | .50277 | 1.98899 | .58162 | 1.71932 | 1.15684 | .86442 | 49 | 1.04400 |
| .52709 | 12 | .50302 | 1.98799 | .58201 | 1.71817 | 1.15704 | .86427 | 48 | 1.04371 |
| .52738 | 13 | .50327 | 1.98700 | .58240 | 1.71702 | 1.15724 | .86413 | 47 | 1.04342 |
| .52767 | 14 | .50352 | 1.98601 | .58279 | 1.71588 | 1.15743 | .86398 | 46 | 1.04313 |
| .52796 | 15 | .50377 | 1.98502 | .58318 | 1.71473 | 1.15763 | .86384 | 45 | 1.04283 |
| .52825 | 16 | .50403 | 1.98403 | .58357 | 1.71358 | 1.15782 | .86369 | 44 | 1.04254 |
| .52854 | 17 | .50428 | 1.98304 | .58396 | 1.71244 | 1.15802 | .86354 | 43 | 1.04225 |
| .52883 | 18 | .50453 | 1.98205 | .58435 | 1.71129 | 1.15822 | .86340 | 42 | 1.04196 |
| .52913 | 19 | .50478 | 1.98107 | .58474 | 1.71015 | 1.15841 | .86325 | 41 | 1.04167 |
| .52942 | 20 | .50503 | 1.98008 | .58513 | 1.70901 | 1.15861 | .86310 | 40 | 1.04138 |
| .52971 | 21 | .50528 | 1.97910 | .58552 | 1.70787 | 1.15881 | .86295 | 39 | 1.04109 |
| .53000 | 22 | .50553 | 1.97811 | .58591 | 1.70673 | 1.15901 | .86281 | 38 | 1.04080 |
| .53029 | 23 | .50578 | 1.97713 | .58631 | 1.70560 | 1.15920 | .86266 | 37 | 1.04051 |
| .53058 | 24 | .50603 | 1.97615 | .58670 | 1.70446 | 1.15940 | .86251 | 36 | 1.04022 |
| .53087 | 25 | .50628 | 1.97517 | .58709 | 1.70332 | 1.15960 | .86237 | 35 | 1.03993 |
| .53116 | 26 | .50654 | 1.97420 | .58748 | 1.70219 | 1.15980 | .86222 | 34 | 1.03963 |
| .53145 | 27 | .50679 | 1.97322 | .58787 | 1.70106 | 1.16000 | .86207 | 33 | 1.03934 |
| .53174 | 28 | .50704 | 1.97224 | .58826 | 1.69992 | 1.16019 | .86192 | 32 | 1.03905 |
| .53203 | 29 | .50729 | 1.97127 | .58865 | 1.69879 | 1.16039 | .86178 | 31 | 1.03876 |
| .53233 | 30 | .50754 | 1.97029 | .58905 | 1.69766 | 1.16059 | .86163 | 30 | 1.03847 |
| .53262 | 31 | .50779 | 1.96932 | .58944 | 1.69653 | 1.16079 | .86148 | 29 | 1.03818 |
| .53291 | 32 | .50804 | 1.96835 | .58983 | 1.69541 | 1.16099 | .86133 | 28 | 1.03789 |
| .53320 | 33 | .50829 | 1.96738 | .59022 | 1.69428 | 1.16119 | .86119 | 27 | 1.03760 |
| .53349 | 34 | .50854 | 1.96641 | .59061 | 1.69316 | 1.16139 | .86104 | 26 | 1.03731 |
| .53378 | 35 | .50879 | 1.96544 | .59101 | 1.69203 | 1.16159 | .86089 | 25 | 1.03702 |
| .53407 | 36 | .50904 | 1.96448 | .59140 | 1.69091 | 1.16179 | .86074 | 24 | 1.03673 |
| .53436 | 37 | .50929 | 1.96351 | .59179 | 1.68979 | 1.16199 | .86059 | 23 | 1.03643 |
| .53465 | 38 | .50954 | 1.96255 | .59218 | 1.68866 | 1.16219 | .86045 | 22 | 1.03614 |
| .53494 | 39 | .50979 | 1.96159 | .59258 | 1.68754 | 1.16239 | .86030 | 21 | 1.03585 |
| .53523 | 40 | .51004 | 1.96062 | .59297 | 1.68643 | 1.16259 | .86015 | 20 | 1.03556 |
| .53553 | 41 | .51029 | 1.95965 | .59336 | 1.68531 | 1.16279 | .85999 | 19 | 1.03527 |
| .53582 | 42 | .51054 | 1.95870 | .59376 | 1.68419 | 1.16299 | .85985 | 18 | 1.03498 |
| .53611 | 43 | .51079 | 1.95774 | .59415 | 1.68308 | 1.16319 | .85970 | 17 | 1.03469 |
| .53640 | 44 | .51104 | 1.95678 | .59454 | 1.68196 | 1.16339 | .85956 | 16 | 1.03440 |
| .53669 | 45 | .51129 | 1.95583 | .59494 | 1.68085 | 1.16359 | .85941 | 15 | 1.03411 |
| .53698 | 46 | .51154 | 1.95487 | .59533 | 1.67974 | 1.16380 | .85926 | 14 | 1.03382 |
| .53727 | 47 | .51179 | 1.95392 | .59573 | 1.67863 | 1.16400 | .85911 | 13 | 1.03353 |
| .53756 | 48 | .51204 | 1.95296 | .59612 | 1.67752 | 1.16420 | .85896 | 12 | 1.03323 |
| .53785 | 49 | .51229 | 1.95201 | .59651 | 1.67641 | 1.16440 | .85881 | 11 | 1.03294 |
| .53814 | 50 | .51254 | 1.95106 | .59691 | 1.67530 | 1.16460 | .85866 | 10 | 1.03265 |
| .53843 | 51 | .51279 | 1.95011 | .59730 | 1.67419 | 1.16481 | .85851 | 9 | 1.03236 |
| .53872 | 52 | .51304 | 1.94916 | .59770 | 1.67309 | 1.16501 | .85836 | 8 | 1.03207 |
| .53902 | 53 | .51329 | 1.94821 | .59809 | 1.67198 | 1.16521 | .85821 | 7 | 1.03178 |
| .53931 | 54 | .51354 | 1.94726 | .59849 | 1.67088 | 1.16541 | .85806 | 6 | 1.03149 |
| .53960 | 55 | .51379 | 1.94632 | .59888 | 1.66978 | 1.16562 | .85792 | 5 | 1.03120 |
| .53989 | 56 | .51404 | 1.94537 | .59928 | 1.66867 | 1.16582 | .85777 | 4 | 1.03091 |
| .54018 | 57 | .51429 | 1.94443 | .59967 | 1.66757 | 1.16602 | .85762 | 3 | 1.03062 |
| .54047 | 58 | .51454 | 1.94349 | .60007 | 1.66647 | 1.16623 | .85747 | 2 | 1.03033 |
| .54076 | 59 | .51479 | 1.94254 | .60046 | 1.66538 | 1.16643 | .85732 | 1 | 1.03004 |
| .54105 | 60 | .51504 | 1.94160 | .60086 | 1.66428 | 1.16663 | .85717 | 0 | 1.02974 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .54105 | 0 | .51504 | 1.94160 | .60086 | 1.66428 | 1.16663 | .85787 | 60 | 1.02974 |
| .54134 | 1 | .51529 | 1.94066 | .60126 | 1.66318 | 1.16684 | .85752 | 59 | 1.02945 |
| .54163 | 2 | .51554 | 1.93973 | .60165 | 1.66209 | 1.16704 | .85687 | 58 | 1.02916 |
| .54192 | 3 | .51579 | 1.93879 | .60205 | 1.66099 | 1.16725 | .85672 | 57 | 1.02887 |
| .54222 | 4 | .51604 | 1.93785 | .60245 | 1.65990 | 1.16745 | .85657 | 56 | 1.02858 |
| .54251 | 5 | .51628 | 1.93692 | .60284 | 1.65881 | 1.16766 | .85642 | 55 | 1.02829 |
| .54280 | 6 | .51653 | 1.93598 | .60324 | 1.65772 | 1.16786 | .85627 | 54 | 1.02800 |
| .54309 | 7 | .51678 | 1.93505 | .60364 | 1.65663 | 1.16806 | .85612 | 53 | 1.02771 |
| .54338 | 8 | .51703 | 1.93412 | .60403 | 1.65554 | 1.16827 | .85597 | 52 | 1.02742 |
| .54367 | 9 | .51728 | 1.93319 | .60443 | 1.65445 | 1.16848 | .85582 | 51 | 1.02713 |
| .54396 | 10 | .51753 | 1.93226 | .60483 | 1.65337 | 1.16868 | .85567 | 50 | 1.02684 |
| .54425 | 11 | .51778 | 1.93133 | .60522 | 1.65228 | 1.16889 | .85551 | 49 | 1.02654 |
| .54454 | 12 | .51803 | 1.93040 | .60562 | 1.65120 | 1.16909 | .85536 | 48 | 1.02625 |
| .54483 | 13 | .51828 | 1.92947 | .60602 | 1.65011 | 1.16930 | .85521 | 47 | 1.02596 |
| .54512 | 14 | .51852 | 1.92855 | .60642 | 1.64903 | 1.16950 | .85506 | 46 | 1.02567 |
| .54542 | 15 | .51877 | 1.92762 | .60681 | 1.64795 | 1.16971 | .85491 | 45 | 1.02538 |
| .54571 | 16 | .51902 | 1.92670 | .60721 | 1.64687 | 1.16992 | .85476 | 44 | 1.02509 |
| .54600 | 17 | .51927 | 1.92578 | .60761 | 1.64579 | 1.17012 | .85461 | 43 | 1.02480 |
| .54629 | 18 | .51952 | 1.92486 | .60801 | 1.64471 | 1.17033 | .85446 | 42 | 1.02451 |
| .54658 | 19 | .51977 | 1.92394 | .60841 | 1.64363 | 1.17054 | .85431 | 41 | 1.02422 |
| .54687 | 20 | .52002 | 1.92302 | .60881 | 1.64256 | 1.17075 | .85416 | 40 | 1.02393 |
| .54716 | 21 | .52026 | 1.92210 | .60921 | 1.64148 | 1.17095 | .85401 | 39 | 1.02364 |
| .54745 | 22 | .52051 | 1.92118 | .60960 | 1.64041 | 1.17116 | .85385 | 38 | 1.02334 |
| .54774 | 23 | .52076 | 1.92027 | .61000 | 1.63934 | 1.17137 | .85370 | 37 | 1.02305 |
| .54803 | 24 | .52101 | 1.91935 | .61040 | 1.63826 | 1.17158 | .85355 | 36 | 1.02276 |
| .54832 | 25 | .52126 | 1.91844 | .61080 | 1.63719 | 1.17178 | .85340 | 35 | 1.02247 |
| .54862 | 26 | .52151 | 1.91752 | .61120 | 1.63612 | 1.17199 | .85325 | 34 | 1.02218 |
| .54891 | 27 | .52175 | 1.91661 | .61160 | 1.63505 | 1.17220 | .85310 | 33 | 1.02189 |
| .54920 | 28 | .52200 | 1.91570 | .61200 | 1.63398 | 1.17241 | .85294 | 32 | 1.02160 |
| .54949 | 29 | .52225 | 1.91479 | .61240 | 1.63292 | 1.17262 | .85279 | 31 | 1.02131 |
| .54978 | 30 | .52250 | 1.91388 | .61280 | 1.63185 | 1.17283 | .85264 | 30 | 1.02102 |
| .55007 | 31 | .52275 | 1.91297 | .61320 | 1.63079 | 1.17304 | .85249 | 29 | 1.02073 |
| .55036 | 32 | .52299 | 1.91207 | .61360 | 1.62972 | 1.17325 | .85234 | 28 | 1.02044 |
| .55065 | 33 | .52324 | 1.91116 | .61400 | 1.62866 | 1.17346 | .85218 | 27 | 1.02014 |
| .55094 | 34 | .52349 | 1.91026 | .61440 | 1.62760 | 1.17367 | .85203 | 26 | 1.01985 |
| .55123 | 35 | .52374 | 1.90935 | .61480 | 1.62654 | 1.17388 | .85188 | 25 | 1.01956 |
| .55152 | 36 | .52399 | 1.90845 | .61520 | 1.62548 | 1.17409 | .85173 | 24 | 1.01927 |
| .55181 | 37 | .52423 | 1.90755 | .61561 | 1.62442 | 1.17430 | .85157 | 23 | 1.01898 |
| .55211 | 38 | .52448 | 1.90665 | .61601 | 1.62336 | 1.17451 | .85142 | 22 | 1.01869 |
| .55240 | 39 | .52473 | 1.90575 | .61641 | 1.62230 | 1.17472 | .85127 | 21 | 1.01840 |
| .55269 | 40 | .52498 | 1.90485 | .61681 | 1.62125 | 1.17493 | .85112 | 20 | 1.01811 |
| .55298 | 41 | .52522 | 1.90395 | .61721 | 1.62019 | 1.17514 | .85096 | 19 | 1.01782 |
| .55327 | 42 | .52547 | 1.90305 | .61761 | 1.61914 | 1.17535 | .85081 | 18 | 1.01753 |
| .55356 | 43 | .52572 | 1.90216 | .61801 | 1.61808 | 1.17556 | .85066 | 17 | 1.01724 |
| .55385 | 44 | .52597 | 1.90126 | .61842 | 1.61703 | 1.17577 | .85051 | 16 | 1.01695 |
| .55414 | 45 | .52621 | 1.90037 | .61882 | 1.61598 | 1.17598 | .85035 | 15 | 1.01666 |
| .55443 | 46 | .52646 | 1.89948 | .61922 | 1.61493 | 1.17620 | .85020 | 14 | 1.01636 |
| .55472 | 47 | .52671 | 1.89858 | .61962 | 1.61388 | 1.17641 | .85005 | 13 | 1.01607 |
| .55501 | 48 | .52696 | 1.89769 | .62003 | 1.61283 | 1.17662 | .84989 | 12 | 1.01578 |
| .55531 | 49 | .52721 | 1.89679 | .62043 | 1.61179 | 1.17683 | .84974 | 11 | 1.01549 |
| .55560 | 50 | .52745 | 1.89589 | .62083 | 1.61075 | 1.17704 | .84959 | 10 | 1.01520 |
| .55589 | 51 | .52770 | 1.89503 | .62124 | 1.60970 | 1.17726 | .84943 | 9 | 1.01491 |
| .55618 | 52 | .52794 | 1.89414 | .62164 | 1.60865 | 1.17747 | .84928 | 8 | 1.01462 |
| .55647 | 53 | .52819 | 1.89325 | .62204 | 1.60761 | 1.17768 | .84913 | 7 | 1.01433 |
| .55676 | 54 | .52844 | 1.89237 | .62245 | 1.60657 | 1.17790 | .84897 | 6 | 1.01404 |
| .55705 | 55 | .52869 | 1.89148 | .62285 | 1.60553 | 1.17811 | .84882 | 5 | 1.01375 |
| .55734 | 56 | .52893 | 1.89060 | .62325 | 1.60449 | 1.17832 | .84866 | 4 | 1.01345 |
| .55763 | 57 | .52918 | 1.88972 | .62366 | 1.60345 | 1.17854 | .84851 | 3 | 1.01316 |
| .55792 | 58 | .52943 | 1.88884 | .62406 | 1.60241 | 1.17875 | .84836 | 2 | 1.01287 |
| .55821 | 59 | .52967 | 1.88796 | .62446 | 1.60137 | 1.17896 | .84820 | 1 | 1.01258 |
| .55851 | 60 | .52992 | 1.88708 | .62487 | 1.60033 | 1.17917 | .84805 | 0 | 1.01229 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|--------|----|--------|---------|--------|---------|---------|--------|----|---------|
| .55851 | 0 | .53992 | 1.88708 | .62487 | 1.60033 | 1.17918 | .84805 | 60 | 1.01229 |
| .55880 | 1 | .53017 | 1.88620 | .62527 | 1.59930 | 1.17939 | .84789 | 59 | 1.01200 |
| .55909 | 2 | .53041 | 1.88532 | .62568 | 1.59826 | 1.17961 | .84774 | 58 | 1.01171 |
| .55938 | 3 | .53066 | 1.88445 | .62608 | 1.59723 | 1.17982 | .84759 | 57 | 1.01142 |
| .55967 | 4 | .53091 | 1.88357 | .62649 | 1.59620 | 1.18004 | .84743 | 56 | 1.01113 |
| .55996 | 5 | .53115 | 1.88270 | .62689 | 1.59517 | 1.18025 | .84728 | 55 | 1.01084 |
| .56025 | 6 | .53140 | 1.88183 | .62730 | 1.59414 | 1.18047 | .84712 | 54 | 1.01055 |
| .56054 | 7 | .53164 | 1.88095 | .62770 | 1.59311 | 1.18068 | .84697 | 53 | 1.01025 |
| .56083 | 8 | .53189 | 1.88008 | .62811 | 1.59208 | 1.18090 | .84681 | 52 | 1.00996 |
| .56112 | 9 | .53214 | 1.87921 | .62852 | 1.59105 | 1.18111 | .84666 | 51 | 1.00967 |
| .56141 | 10 | .53238 | 1.87834 | .62892 | 1.59002 | 1.18133 | .84650 | 50 | 1.00938 |
| .56171 | 11 | .53263 | 1.87748 | .62933 | 1.58900 | 1.18155 | .84635 | 49 | 1.00909 |
| .56200 | 12 | .53288 | 1.87661 | .62973 | 1.58797 | 1.18176 | .84619 | 48 | 1.00880 |
| .56229 | 13 | .53312 | 1.87574 | .63014 | 1.58695 | 1.18198 | .84604 | 47 | 1.00851 |
| .56258 | 14 | .53337 | 1.87488 | .63055 | 1.58593 | 1.18220 | .84588 | 46 | 1.00822 |
| .56287 | 15 | .53361 | 1.87401 | .63095 | 1.58490 | 1.18241 | .84573 | 45 | 1.00793 |
| .56316 | 16 | .53386 | 1.87315 | .63136 | 1.58388 | 1.18263 | .84557 | 44 | 1.00764 |
| .56345 | 17 | .53411 | 1.87229 | .63177 | 1.58286 | 1.18285 | .84542 | 43 | 1.00735 |
| .56374 | 18 | .53435 | 1.87142 | .63217 | 1.58184 | 1.18307 | .84526 | 42 | 1.00705 |
| .56403 | 19 | .53460 | 1.87056 | .63258 | 1.58083 | 1.18328 | .84511 | 41 | 1.00676 |
| .56432 | 20 | .53484 | 1.86990 | .63299 | 1.57981 | 1.18350 | .84495 | 40 | 1.00647 |
| .56461 | 21 | .53509 | 1.86885 | .63340 | 1.57879 | 1.18372 | .84480 | 39 | 1.00618 |
| .56490 | 22 | .53534 | 1.86799 | .63380 | 1.57778 | 1.18394 | .84464 | 38 | 1.00589 |
| .56520 | 23 | .53558 | 1.86713 | .63421 | 1.57676 | 1.18416 | .84448 | 37 | 1.00560 |
| .56549 | 24 | .53583 | 1.86627 | .63462 | 1.57575 | 1.18437 | .84433 | 36 | 1.00531 |
| .56578 | 25 | .53607 | 1.86542 | .63503 | 1.57474 | 1.18459 | .84417 | 35 | 1.00502 |
| .56607 | 26 | .53632 | 1.86457 | .63544 | 1.57372 | 1.18481 | .84402 | 34 | 1.00473 |
| .56636 | 27 | .53656 | 1.86371 | .63584 | 1.57271 | 1.18503 | .84386 | 33 | 1.00444 |
| .56665 | 28 | .53681 | 1.86286 | .63625 | 1.57170 | 1.18525 | .84370 | 32 | 1.00415 |
| .56694 | 29 | .53705 | 1.86201 | .63666 | 1.57069 | 1.18547 | .84355 | 31 | 1.00386 |
| .56723 | 30 | .53730 | 1.86116 | .63707 | 1.56969 | 1.18569 | .84339 | 30 | 1.00356 |
| .56752 | 31 | .53754 | 1.86031 | .63748 | 1.56868 | 1.18591 | .84324 | 29 | 1.00327 |
| .56781 | 32 | .53779 | 1.85946 | .63789 | 1.56767 | 1.18613 | .84308 | 28 | 1.00298 |
| .56810 | 33 | .53804 | 1.85861 | .63830 | 1.56667 | 1.18635 | .84292 | 27 | 1.00269 |
| .56840 | 34 | .53828 | 1.85777 | .63871 | 1.56566 | 1.18657 | .84277 | 26 | 1.00240 |
| .56869 | 35 | .53853 | 1.85692 | .63912 | 1.56466 | 1.18679 | .84261 | 25 | 1.00211 |
| .56898 | 36 | .53878 | 1.85608 | .63953 | 1.56366 | 1.18701 | .84245 | 24 | 1.00182 |
| .56927 | 37 | .53902 | 1.85523 | .63994 | 1.56265 | 1.18723 | .84230 | 23 | 1.00153 |
| .56956 | 38 | .53926 | 1.85439 | .64035 | 1.56165 | 1.18745 | .84214 | 22 | 1.00124 |
| .56985 | 39 | .53951 | 1.85355 | .64076 | 1.56065 | 1.18767 | .84198 | 21 | 1.00095 |
| .57014 | 40 | .53975 | 1.85271 | .64117 | 1.55966 | 1.18790 | .84182 | 20 | 1.00066 |
| .57043 | 41 | .54000 | 1.85187 | .64158 | 1.55867 | 1.18812 | .84166 | 19 | 1.00036 |
| .57072 | 42 | .54024 | 1.85103 | .64199 | 1.55766 | 1.18834 | .84151 | 18 | 1.00007 |
| .57101 | 43 | .54049 | 1.85019 | .64240 | 1.55666 | 1.18856 | .84135 | 17 | .99978 |
| .57130 | 44 | .54073 | 1.84935 | .64281 | 1.55567 | 1.18878 | .84120 | 16 | .99949 |
| .57160 | 45 | .54097 | 1.84852 | .64322 | 1.55467 | 1.18901 | .84104 | 15 | .99920 |
| .57189 | 46 | .54122 | 1.84768 | .64363 | 1.55368 | 1.18923 | .84088 | 14 | .99891 |
| .57218 | 47 | .54146 | 1.84685 | .64404 | 1.55269 | 1.18945 | .84072 | 13 | .99862 |
| .57247 | 48 | .54171 | 1.84601 | .64446 | 1.55170 | 1.18967 | .84057 | 12 | .99833 |
| .57276 | 49 | .54195 | 1.84517 | .64487 | 1.55071 | 1.18990 | .84041 | 11 | .99804 |
| .57305 | 50 | .54220 | 1.84433 | .64528 | 1.54972 | 1.19012 | .84025 | 10 | .99775 |
| .57334 | 51 | .54244 | 1.84352 | .64569 | 1.54873 | 1.19034 | .84009 | 9 | .99746 |
| .57363 | 52 | .54269 | 1.84269 | .64610 | 1.54774 | 1.19057 | .83994 | 8 | .99716 |
| .57392 | 53 | .54293 | 1.84186 | .64652 | 1.54675 | 1.19079 | .83978 | 7 | .99687 |
| .57421 | 54 | .54317 | 1.84103 | .64693 | 1.54576 | 1.19102 | .83962 | 6 | .99658 |
| .57450 | 55 | .54342 | 1.84020 | .64734 | 1.54478 | 1.19124 | .83946 | 5 | .99629 |
| .57480 | 56 | .54366 | 1.83938 | .64775 | 1.54379 | 1.19146 | .83930 | 4 | .99600 |
| .57509 | 57 | .54391 | 1.83855 | .64817 | 1.54281 | 1.19169 | .83915 | 3 | .99571 |
| .57538 | 58 | .54415 | 1.83773 | .64858 | 1.54183 | 1.19191 | .83899 | 2 | .99542 |
| .57567 | 59 | .54440 | 1.83690 | .64899 | 1.54085 | 1.19214 | .83883 | 1 | .99513 |
| .57596 | 60 | .54464 | 1.83608 | .64941 | 1.53986 | 1.19236 | .83867 | 0 | .99484 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .57596 | 0 | .54464 | 1.83608 | .64941 | 1.53986 | 1.19236 | .83867 | 60 | .99484 |
| .57625 | 1 | .54488 | 1.83526 | .64982 | 1.53888 | 1.19259 | .83851 | 59 | .99455 |
| .57654 | 2 | .54513 | 1.83444 | .65024 | 1.53791 | 1.19281 | .83835 | 58 | .99426 |
| .57683 | 3 | .54537 | 1.83362 | .65065 | 1.53693 | 1.19304 | .83819 | 57 | .99397 |
| .57712 | 4 | .54561 | 1.83280 | .65106 | 1.53595 | 1.19327 | .83804 | 56 | .99367 |
| .57741 | 5 | .54586 | 1.83198 | .65148 | 1.53497 | 1.19349 | .83788 | 55 | .99338 |
| .57770 | 6 | .54610 | 1.83116 | .65189 | 1.53400 | 1.19372 | .83772 | 54 | .99309 |
| .57799 | 7 | .54635 | 1.83034 | .65231 | 1.53302 | 1.19394 | .83756 | 53 | .99280 |
| .57829 | 8 | .54659 | 1.82953 | .65272 | 1.53205 | 1.19417 | .83740 | 52 | .99251 |
| .57858 | 9 | .54683 | 1.82871 | .65314 | 1.53107 | 1.19440 | .83724 | 51 | .99222 |
| .57887 | 10 | .54708 | 1.82790 | .65355 | 1.53010 | 1.19463 | .83708 | 50 | .99193 |
| .57916 | 11 | .54732 | 1.82709 | .65397 | 1.52913 | 1.19485 | .83692 | 49 | .99164 |
| .57945 | 12 | .54756 | 1.82627 | .65438 | 1.52816 | 1.19508 | .83676 | 48 | .99135 |
| .57974 | 13 | .54781 | 1.82546 | .65480 | 1.52719 | 1.19531 | .83660 | 47 | .99106 |
| .58003 | 14 | .54805 | 1.82465 | .65521 | 1.52622 | 1.19553 | .83645 | 46 | .99077 |
| .58032 | 15 | .54829 | 1.82384 | .65563 | 1.52525 | 1.19576 | .83629 | 45 | .99048 |
| .58061 | 16 | .54854 | 1.82303 | .65604 | 1.52429 | 1.19599 | .83613 | 44 | .99018 |
| .58090 | 17 | .54878 | 1.82222 | .65646 | 1.52332 | 1.19622 | .83597 | 43 | .98989 |
| .58119 | 18 | .54902 | 1.82142 | .65688 | 1.52235 | 1.19645 | .83581 | 42 | .98960 |
| .58149 | 19 | .54927 | 1.82061 | .65729 | 1.52139 | 1.19668 | .83565 | 41 | .98931 |
| .58178 | 20 | .54951 | 1.81981 | .65771 | 1.52043 | 1.19691 | .83549 | 40 | .98902 |
| .58207 | 21 | .54975 | 1.81900 | .65813 | 1.51946 | 1.19713 | .83533 | 39 | .98873 |
| .58236 | 22 | .54999 | 1.81820 | .65854 | 1.51850 | 1.19736 | .83517 | 38 | .98844 |
| .58265 | 23 | .55024 | 1.81740 | .65896 | 1.51754 | 1.19759 | .83501 | 37 | .98815 |
| .58294 | 24 | .55048 | 1.81659 | .65938 | 1.51658 | 1.19782 | .83485 | 36 | .98786 |
| .58323 | 25 | .55072 | 1.81579 | .65980 | 1.51562 | 1.19805 | .83469 | 35 | .98757 |
| .58352 | 26 | .55097 | 1.81499 | .66021 | 1.51466 | 1.19828 | .83453 | 34 | .98727 |
| .58381 | 27 | .55121 | 1.81419 | .66063 | 1.51370 | 1.19851 | .83437 | 33 | .98698 |
| .58410 | 28 | .55145 | 1.81340 | .66105 | 1.51275 | 1.19874 | .83421 | 32 | .98669 |
| .58439 | 29 | .55169 | 1.81260 | .66147 | 1.51179 | 1.19897 | .83405 | 31 | .98640 |
| .58469 | 30 | .55194 | 1.81180 | .66189 | 1.51084 | 1.19920 | .83389 | 30 | .98611 |
| .58498 | 31 | .55218 | 1.81101 | .66230 | 1.50988 | 1.19944 | .83373 | 29 | .98582 |
| .58527 | 32 | .55242 | 1.81021 | .66272 | 1.50893 | 1.19967 | .83356 | 28 | .98553 |
| .58556 | 33 | .55266 | 1.80942 | .66314 | 1.50797 | 1.19990 | .83340 | 27 | .98524 |
| .58585 | 34 | .55291 | 1.80862 | .66356 | 1.50702 | 1.20013 | .83324 | 26 | .98495 |
| .58614 | 35 | .55315 | 1.80783 | .66398 | 1.50607 | 1.20036 | .83308 | 25 | .98466 |
| .58643 | 36 | .55339 | 1.80704 | .66440 | 1.50512 | 1.20059 | .83292 | 24 | .98437 |
| .58672 | 37 | .55363 | 1.80625 | .66482 | 1.50417 | 1.20083 | .83276 | 23 | .98407 |
| .58701 | 38 | .55388 | 1.80546 | .66524 | 1.50322 | 1.20106 | .83260 | 22 | .98378 |
| .58730 | 39 | .55412 | 1.80467 | .66566 | 1.50228 | 1.20129 | .83244 | 21 | .98349 |
| .58759 | 40 | .55436 | 1.80388 | .66608 | 1.50133 | 1.20152 | .83228 | 20 | .98320 |
| .58789 | 41 | .55460 | 1.80309 | .66650 | 1.50038 | 1.20176 | .83212 | 19 | .98291 |
| .58818 | 42 | .55484 | 1.80231 | .66692 | 1.49944 | 1.20199 | .83195 | 18 | .98262 |
| .58847 | 43 | .55509 | 1.80152 | .66734 | 1.49849 | 1.20222 | .83179 | 17 | .98233 |
| .58876 | 44 | .55533 | 1.80074 | .66776 | 1.49755 | 1.20246 | .83163 | 16 | .98204 |
| .58905 | 45 | .55557 | 1.79995 | .66818 | 1.49661 | 1.20269 | .83147 | 15 | .98175 |
| .58934 | 46 | .55581 | 1.79917 | .66860 | 1.49566 | 1.20292 | .83131 | 14 | .98146 |
| .58963 | 47 | .55605 | 1.79839 | .66902 | 1.49472 | 1.20316 | .83115 | 13 | .98117 |
| .58992 | 48 | .55630 | 1.79761 | .66944 | 1.49378 | 1.20339 | .83098 | 12 | .98088 |
| .59021 | 49 | .55654 | 1.79682 | .66986 | 1.49284 | 1.20363 | .83082 | 11 | .98059 |
| .59050 | 50 | .55678 | 1.79604 | .67028 | 1.49190 | 1.20386 | .83066 | 10 | .98029 |
| .59079 | 51 | .55702 | 1.79527 | .67071 | 1.49097 | 1.20410 | .83050 | 9 | .98000 |
| .59108 | 52 | .55726 | 1.79449 | .67113 | 1.49003 | 1.20433 | .83034 | 8 | .97971 |
| .59138 | 53 | .55750 | 1.79371 | .67155 | 1.48909 | 1.20457 | .83017 | 7 | .97942 |
| .59167 | 54 | .55775 | 1.79293 | .67197 | 1.48816 | 1.20480 | .83001 | 6 | .97913 |
| .59196 | 55 | .55799 | 1.79216 | .67239 | 1.48722 | 1.20504 | .82985 | 5 | .97884 |
| .59225 | 56 | .55823 | 1.79138 | .67282 | 1.48629 | 1.20527 | .82969 | 4 | .97855 |
| .59254 | 57 | .55847 | 1.79061 | .67324 | 1.48536 | 1.20551 | .82953 | 3 | .97826 |
| .59283 | 58 | .55871 | 1.78984 | .67366 | 1.48442 | 1.20575 | .82936 | 2 | .97797 |
| .59312 | 59 | .55895 | 1.78906 | .67409 | 1.48349 | 1.20598 | .82920 | 1 | .97768 |
| .59341 | 60 | .55919 | 1.78829 | .67451 | 1.48256 | 1.20622 | .82904 | 0 | .97738 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .59341 | 0 | .5919 | 1.78829 | .67451 | 1.48256 | 1.20622 | .82904 | 60 | .97738 |
| .59370 | 1 | .59943 | 1.78752 | .67493 | 1.48163 | 1.20645 | .82887 | 59 | .97709 |
| .59399 | 2 | .59968 | 1.78675 | .67536 | 1.48070 | 1.20669 | .82871 | 58 | .97680 |
| .59428 | 3 | .59992 | 1.78598 | .67578 | 1.47977 | 1.20693 | .82855 | 57 | .97651 |
| .59458 | 4 | .60016 | 1.78521 | .67620 | 1.47885 | 1.20717 | .82839 | 56 | .97622 |
| .59487 | 5 | .60040 | 1.78445 | .67663 | 1.47792 | 1.20740 | .82822 | 55 | .97593 |
| .59516 | 6 | .60064 | 1.78368 | .67705 | 1.47699 | 1.20764 | .82806 | 54 | .97564 |
| .59545 | 7 | .60088 | 1.78291 | .67748 | 1.47607 | 1.20788 | .82790 | 53 | .97535 |
| .59574 | 8 | .60112 | 1.78215 | .67790 | 1.47514 | 1.20812 | .82773 | 52 | .97506 |
| .59603 | 9 | .60136 | 1.78138 | .67832 | 1.47422 | 1.20836 | .82757 | 51 | .97477 |
| .59632 | 10 | .60160 | 1.78062 | .67875 | 1.47330 | 1.20859 | .82741 | 50 | .97448 |
| .59661 | 11 | .60184 | 1.77986 | .67917 | 1.47238 | 1.20883 | .82724 | 49 | .97418 |
| .59690 | 12 | .60208 | 1.77910 | .67960 | 1.47146 | 1.20907 | .82708 | 48 | .97389 |
| .59719 | 13 | .60232 | 1.77833 | .68002 | 1.47053 | 1.20931 | .82692 | 47 | .97360 |
| .59748 | 14 | .60256 | 1.77757 | .68045 | 1.46962 | 1.20955 | .82675 | 46 | .97331 |
| .59778 | 15 | .60280 | 1.77681 | .68088 | 1.46870 | 1.20979 | .82659 | 45 | .97302 |
| .59807 | 16 | .60305 | 1.77606 | .68130 | 1.46778 | 1.21003 | .82643 | 44 | .97273 |
| .59836 | 17 | .60329 | 1.77530 | .68173 | 1.46686 | 1.21027 | .82626 | 43 | .97244 |
| .59865 | 18 | .60353 | 1.77454 | .68215 | 1.46595 | 1.21051 | .82610 | 42 | .97215 |
| .59894 | 19 | .60377 | 1.77378 | .68258 | 1.46503 | 1.21075 | .82593 | 41 | .97186 |
| .59923 | 20 | .60401 | 1.77303 | .68301 | 1.46411 | 1.21099 | .82577 | 40 | .97157 |
| .59952 | 21 | .60425 | 1.77227 | .68343 | 1.46320 | 1.21123 | .82561 | 39 | .97128 |
| .59981 | 22 | .60449 | 1.77152 | .68386 | 1.46229 | 1.21147 | .82544 | 38 | .97098 |
| .60010 | 23 | .60473 | 1.77077 | .68429 | 1.46137 | 1.21171 | .82528 | 37 | .97069 |
| .60039 | 24 | .60497 | 1.77001 | .68471 | 1.46046 | 1.21195 | .82511 | 36 | .97040 |
| .60068 | 25 | .60521 | 1.76926 | .68514 | 1.45955 | 1.21220 | .82495 | 35 | .97011 |
| .60098 | 26 | .60545 | 1.76851 | .68557 | 1.45864 | 1.21244 | .82478 | 34 | .96982 |
| .60127 | 27 | .60569 | 1.76776 | .68600 | 1.45773 | 1.21268 | .82462 | 33 | .96953 |
| .60156 | 28 | .60593 | 1.76701 | .68642 | 1.45682 | 1.21292 | .82446 | 32 | .96924 |
| .60185 | 29 | .60617 | 1.76626 | .68685 | 1.45592 | 1.21316 | .82429 | 31 | .96895 |
| .60214 | 30 | .60641 | 1.76551 | .68728 | 1.45501 | 1.21341 | .82413 | 30 | .96866 |
| .60243 | 31 | .60665 | 1.76477 | .68771 | 1.45410 | 1.21365 | .82396 | 29 | .96837 |
| .60272 | 32 | .60689 | 1.76402 | .68814 | 1.45320 | 1.21389 | .82380 | 28 | .96808 |
| .60301 | 33 | .60713 | 1.76328 | .68857 | 1.45229 | 1.21414 | .82363 | 27 | .96779 |
| .60330 | 34 | .60736 | 1.76253 | .68900 | 1.45139 | 1.21438 | .82347 | 26 | .96749 |
| .60359 | 35 | .60760 | 1.76179 | .68942 | 1.45049 | 1.21462 | .82330 | 25 | .96720 |
| .60388 | 36 | .60784 | 1.76105 | .68985 | 1.44958 | 1.21487 | .82314 | 24 | .96691 |
| .60417 | 37 | .60808 | 1.76031 | .69028 | 1.44868 | 1.21511 | .82297 | 23 | .96662 |
| .60447 | 38 | .60832 | 1.75956 | .69071 | 1.44778 | 1.21535 | .82281 | 22 | .96633 |
| .60476 | 39 | .60856 | 1.75882 | .69114 | 1.44688 | 1.21560 | .82264 | 21 | .96604 |
| .60505 | 40 | .60880 | 1.75807 | .69157 | 1.44598 | 1.21584 | .82247 | 20 | .96575 |
| .60534 | 41 | .60904 | 1.75733 | .69200 | 1.44508 | 1.21608 | .82231 | 19 | .96546 |
| .60563 | 42 | .60928 | 1.75658 | .69243 | 1.44418 | 1.21633 | .82214 | 18 | .96517 |
| .60592 | 43 | .60952 | 1.75583 | .69286 | 1.44329 | 1.21658 | .82198 | 17 | .96488 |
| .60621 | 44 | .60976 | 1.75508 | .69329 | 1.44239 | 1.21682 | .82181 | 16 | .96459 |
| .60650 | 45 | .61000 | 1.75433 | .69372 | 1.44149 | 1.21707 | .82165 | 15 | .96429 |
| .60679 | 46 | .61024 | 1.75358 | .69416 | 1.44060 | 1.21731 | .82148 | 14 | .96400 |
| .60708 | 47 | .61048 | 1.75283 | .69459 | 1.43970 | 1.21756 | .82132 | 13 | .96371 |
| .60737 | 48 | .61071 | 1.75208 | .69502 | 1.43881 | 1.21781 | .82115 | 12 | .96342 |
| .60767 | 49 | .61095 | 1.75133 | .69545 | 1.43792 | 1.21805 | .82098 | 11 | .96313 |
| .60796 | 50 | .61119 | 1.75058 | .69588 | 1.43703 | 1.21830 | .82082 | 10 | .96284 |
| .60825 | 51 | .61143 | 1.74983 | .69631 | 1.43614 | 1.21855 | .82065 | 9 | .96255 |
| .60854 | 52 | .61167 | 1.74907 | .69675 | 1.43525 | 1.21879 | .82048 | 8 | .96226 |
| .60883 | 53 | .61191 | 1.74832 | .69718 | 1.43436 | 1.21904 | .82032 | 7 | .96197 |
| .60912 | 54 | .61215 | 1.74757 | .69761 | 1.43347 | 1.21929 | .82015 | 6 | .96168 |
| .60941 | 55 | .61238 | 1.74682 | .69804 | 1.43258 | 1.21953 | .81999 | 5 | .96139 |
| .60970 | 56 | .61262 | 1.74607 | .69847 | 1.43169 | 1.21978 | .81982 | 4 | .96110 |
| .61000 | 57 | .61286 | 1.74532 | .69891 | 1.43080 | 1.22003 | .81965 | 3 | .96080 |
| .61028 | 58 | .61310 | 1.74457 | .69934 | 1.42992 | 1.22028 | .81949 | 2 | .96051 |
| .61057 | 59 | .61334 | 1.74382 | .69977 | 1.42903 | 1.22053 | .81932 | 1 | .96022 |
| .61087 | 60 | .61358 | 1.74307 | .70021 | 1.42815 | 1.22077 | .81915 | 0 | .95993 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .61087 | 0 | .57358 | 1.74345 | .70021 | 1.42815 | 1.22077 | .81916 | 60 | .95993 |
| .61116 | 1 | .57381 | 1.74272 | .70064 | 1.42726 | 1.22102 | .81899 | 59 | .95964 |
| .61145 | 2 | .57405 | 1.74200 | .70107 | 1.42638 | 1.22127 | .81882 | 58 | .95935 |
| .61174 | 3 | .57429 | 1.74128 | .70151 | 1.42550 | 1.22152 | .81865 | 57 | .95906 |
| .61203 | 4 | .57453 | 1.74056 | .70194 | 1.42462 | 1.22177 | .81848 | 56 | .95877 |
| .61232 | 5 | .57477 | 1.73983 | .70238 | 1.42374 | 1.22202 | .81832 | 55 | .95848 |
| .61261 | 6 | .57501 | 1.73911 | .70281 | 1.42286 | 1.22227 | .81815 | 54 | .95819 |
| .61290 | 7 | .57524 | 1.73840 | .70325 | 1.42198 | 1.22252 | .81798 | 53 | .95789 |
| .61319 | 8 | .57548 | 1.73768 | .70368 | 1.42110 | 1.22277 | .81782 | 52 | .95760 |
| .61348 | 9 | .57572 | 1.73696 | .70412 | 1.42022 | 1.22302 | .81765 | 51 | .95731 |
| .61377 | 10 | .57596 | 1.73624 | .70455 | 1.41934 | 1.22327 | .81748 | 50 | .95702 |
| .61407 | 11 | .57619 | 1.73552 | .70499 | 1.41847 | 1.22352 | .81731 | 49 | .95673 |
| .61436 | 12 | .57643 | 1.73481 | .70542 | 1.41759 | 1.22377 | .81714 | 48 | .95644 |
| .61465 | 13 | .57667 | 1.73409 | .70586 | 1.41672 | 1.22402 | .81698 | 47 | .95615 |
| .61494 | 14 | .57691 | 1.73338 | .70629 | 1.41584 | 1.22428 | .81681 | 46 | .95586 |
| .61523 | 15 | .57715 | 1.73267 | .70673 | 1.41497 | 1.22453 | .81664 | 45 | .95557 |
| .61552 | 16 | .57738 | 1.73195 | .70717 | 1.41409 | 1.22478 | .81647 | 44 | .95528 |
| .61581 | 17 | .57762 | 1.73124 | .70760 | 1.41322 | 1.22503 | .81631 | 43 | .95499 |
| .61610 | 18 | .57786 | 1.73053 | .70804 | 1.41235 | 1.22528 | .81614 | 42 | .95470 |
| .61639 | 19 | .57810 | 1.72982 | .70848 | 1.41148 | 1.22554 | .81597 | 41 | .95440 |
| .61668 | 20 | .57833 | 1.72911 | .70891 | 1.41061 | 1.22579 | .81580 | 40 | .95411 |
| .61697 | 21 | .57857 | 1.72840 | .70935 | 1.40974 | 1.22604 | .81563 | 39 | .95382 |
| .61726 | 22 | .57881 | 1.72769 | .70979 | 1.40887 | 1.22629 | .81546 | 38 | .95353 |
| .61756 | 23 | .57904 | 1.72698 | .71023 | 1.40800 | 1.22655 | .81530 | 37 | .95324 |
| .61785 | 24 | .57928 | 1.72628 | .71066 | 1.40714 | 1.22680 | .81513 | 36 | .95295 |
| .61814 | 25 | .57952 | 1.72557 | .71110 | 1.40627 | 1.22706 | .81496 | 35 | .95266 |
| .61843 | 26 | .57976 | 1.72487 | .71154 | 1.40540 | 1.22731 | .81479 | 34 | .95237 |
| .61872 | 27 | .57999 | 1.72416 | .71198 | 1.40454 | 1.22756 | .81462 | 33 | .95208 |
| .61901 | 28 | .58023 | 1.72346 | .71242 | 1.40367 | 1.22782 | .81445 | 32 | .95179 |
| .61930 | 29 | .58047 | 1.72275 | .71285 | 1.40281 | 1.22807 | .81428 | 31 | .95150 |
| .61959 | 30 | .58070 | 1.72205 | .71329 | 1.40195 | 1.22833 | .81412 | 30 | .95120 |
| .61988 | 31 | .58094 | 1.72135 | .71373 | 1.40109 | 1.22858 | .81395 | 29 | .95091 |
| .62017 | 32 | .58118 | 1.72065 | .71417 | 1.40022 | 1.22884 | .81378 | 28 | .95062 |
| .62046 | 33 | .58141 | 1.71995 | .71461 | 1.39936 | 1.22909 | .81361 | 27 | .95033 |
| .62076 | 34 | .58165 | 1.71925 | .71505 | 1.39850 | 1.22935 | .81344 | 26 | .95004 |
| .62105 | 35 | .58189 | 1.71855 | .71549 | 1.39764 | 1.22960 | .81327 | 25 | .94975 |
| .62134 | 36 | .58212 | 1.71785 | .71593 | 1.39679 | 1.22986 | .81310 | 24 | .94946 |
| .62163 | 37 | .58236 | 1.71715 | .71637 | 1.39593 | 1.23012 | .81293 | 23 | .94917 |
| .62192 | 38 | .58260 | 1.71646 | .71681 | 1.39507 | 1.23037 | .81276 | 22 | .94888 |
| .62221 | 39 | .58283 | 1.71576 | .71725 | 1.39421 | 1.23063 | .81259 | 21 | .94859 |
| .62250 | 40 | .58307 | 1.71506 | .71769 | 1.39336 | 1.23089 | .81242 | 20 | .94830 |
| .62279 | 41 | .58330 | 1.71437 | .71813 | 1.39250 | 1.23114 | .81225 | 19 | .94800 |
| .62308 | 42 | .58354 | 1.71368 | .71857 | 1.39165 | 1.23140 | .81208 | 18 | .94771 |
| .62337 | 43 | .58378 | 1.71298 | .71901 | 1.39079 | 1.23166 | .81191 | 17 | .94742 |
| .62366 | 44 | .58401 | 1.71229 | .71946 | 1.38994 | 1.23192 | .81174 | 16 | .94713 |
| .62396 | 45 | .58425 | 1.71160 | .71990 | 1.38909 | 1.23217 | .81157 | 15 | .94684 |
| .62425 | 46 | .58449 | 1.71091 | .72034 | 1.38824 | 1.23243 | .81140 | 14 | .94655 |
| .62454 | 47 | .58472 | 1.71022 | .72078 | 1.38738 | 1.23269 | .81123 | 13 | .94626 |
| .62483 | 48 | .58496 | 1.70953 | .72122 | 1.38653 | 1.23295 | .81106 | 12 | .94597 |
| .62512 | 49 | .58519 | 1.70884 | .72167 | 1.38568 | 1.23321 | .81089 | 11 | .94568 |
| .62541 | 50 | .58543 | 1.70815 | .72211 | 1.38484 | 1.23347 | .81072 | 10 | .94539 |
| .62570 | 51 | .58567 | 1.70746 | .72255 | 1.38399 | 1.23373 | .81055 | 9 | .94510 |
| .62599 | 52 | .58590 | 1.70677 | .72299 | 1.38314 | 1.23398 | .81038 | 8 | .94480 |
| .62628 | 53 | .58614 | 1.70609 | .72344 | 1.38229 | 1.23424 | .81021 | 7 | .94451 |
| .62657 | 54 | .58637 | 1.70540 | .72388 | 1.38145 | 1.23450 | .81004 | 6 | .94422 |
| .62686 | 55 | .58661 | 1.70472 | .72432 | 1.38060 | 1.23476 | .80987 | 5 | .94393 |
| .62715 | 56 | .58684 | 1.70403 | .72477 | 1.37976 | 1.23502 | .80970 | 4 | .94364 |
| .62745 | 57 | .58708 | 1.70335 | .72521 | 1.37891 | 1.23529 | .80953 | 3 | .94335 |
| .62774 | 58 | .58731 | 1.70267 | .72565 | 1.37807 | 1.23555 | .80936 | 2 | .94306 |
| .62803 | 59 | .58755 | 1.70198 | .72610 | 1.37722 | 1.23581 | .80919 | 1 | .94277 |
| .62832 | 60 | .58779 | 1.70130 | .72654 | 1.37638 | 1.23607 | .80902 | 0 | .94248 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .62832 | 0 | .5779 | 1.70130 | .72654 | 1.37638 | 1.23607 | .80902 | 60 | .94248 |
| .62861 | 1 | .58802 | 1.70062 | .72699 | 1.37554 | 1.23633 | .80885 | 59 | .94219 |
| .62890 | 2 | .58826 | 1.69994 | .72743 | 1.37470 | 1.23659 | .80867 | 58 | .94190 |
| .62919 | 3 | .58849 | 1.69926 | .72788 | 1.37386 | 1.23685 | .80850 | 57 | .94161 |
| .62948 | 4 | .58873 | 1.69858 | .72832 | 1.37302 | 1.23711 | .80833 | 56 | .94131 |
| .62977 | 5 | .58896 | 1.69790 | .72877 | 1.37218 | 1.23738 | .80816 | 55 | .94102 |
| .63006 | 6 | .58920 | 1.69723 | .72921 | 1.37134 | 1.23764 | .80799 | 54 | .94073 |
| .63035 | 7 | .58943 | 1.69655 | .72966 | 1.37050 | 1.23790 | .80782 | 53 | .94044 |
| .63065 | 8 | .58967 | 1.69587 | .73010 | 1.36967 | 1.23816 | .80765 | 52 | .94015 |
| .63094 | 9 | .58990 | 1.69520 | .73055 | 1.36883 | 1.23843 | .80748 | 51 | .93986 |
| .63123 | 10 | .59014 | 1.69452 | .73100 | 1.36800 | 1.23869 | .80730 | 50 | .93957 |
| .63152 | 11 | .59037 | 1.69385 | .73144 | 1.36716 | 1.23895 | .80713 | 49 | .93928 |
| .63181 | 12 | .59061 | 1.69318 | .73189 | 1.36633 | 1.23922 | .80696 | 48 | .93899 |
| .63210 | 13 | .59084 | 1.69250 | .73234 | 1.36549 | 1.23948 | .80679 | 47 | .93870 |
| .63239 | 14 | .59108 | 1.69183 | .73278 | 1.36466 | 1.23975 | .80662 | 46 | .93841 |
| .63268 | 15 | .59131 | 1.69116 | .73323 | 1.36383 | 1.24001 | .80644 | 45 | .93811 |
| .63297 | 16 | .59154 | 1.69049 | .73368 | 1.36300 | 1.24028 | .80627 | 44 | .93782 |
| .63326 | 17 | .59178 | 1.68982 | .73413 | 1.36217 | 1.24054 | .80610 | 43 | .93753 |
| .63355 | 18 | .59201 | 1.68915 | .73457 | 1.36134 | 1.24081 | .80593 | 42 | .93724 |
| .63385 | 19 | .59225 | 1.68848 | .73502 | 1.36051 | 1.24107 | .80576 | 41 | .93695 |
| .63414 | 20 | .59248 | 1.68782 | .73547 | 1.35968 | 1.24134 | .80558 | 40 | .93666 |
| .63443 | 21 | .59272 | 1.68715 | .73592 | 1.35885 | 1.24160 | .80541 | 39 | .93637 |
| .63472 | 22 | .59295 | 1.68648 | .73637 | 1.35802 | 1.24187 | .80524 | 38 | .93608 |
| .63501 | 23 | .59318 | 1.68582 | .73681 | 1.35719 | 1.24213 | .80507 | 37 | .93579 |
| .63530 | 24 | .59342 | 1.68515 | .73726 | 1.35637 | 1.24240 | .80489 | 36 | .93550 |
| .63559 | 25 | .59365 | 1.68449 | .73771 | 1.35554 | 1.24267 | .80472 | 35 | .93521 |
| .63588 | 26 | .59389 | 1.68382 | .73816 | 1.35472 | 1.24293 | .80455 | 34 | .93491 |
| .63617 | 27 | .59412 | 1.68316 | .73861 | 1.35389 | 1.24320 | .80438 | 33 | .93462 |
| .63646 | 28 | .59436 | 1.68250 | .73906 | 1.35307 | 1.24347 | .80420 | 32 | .93433 |
| .63675 | 29 | .59459 | 1.68183 | .73951 | 1.35224 | 1.24373 | .80403 | 31 | .93404 |
| .63705 | 30 | .59482 | 1.68117 | .73996 | 1.35142 | 1.24400 | .80386 | 30 | .93375 |
| .63734 | 31 | .59506 | 1.68051 | .74041 | 1.35060 | 1.24427 | .80368 | 29 | .93346 |
| .63763 | 32 | .59529 | 1.67985 | .74086 | 1.34978 | 1.24454 | .80351 | 28 | .93317 |
| .63792 | 33 | .59552 | 1.67919 | .74131 | 1.34896 | 1.24481 | .80334 | 27 | .93288 |
| .63821 | 34 | .59576 | 1.67853 | .74176 | 1.34814 | 1.24508 | .80316 | 26 | .93259 |
| .63850 | 35 | .59599 | 1.67788 | .74221 | 1.34732 | 1.24534 | .80299 | 25 | .93230 |
| .63879 | 36 | .59622 | 1.67722 | .74267 | 1.34650 | 1.24561 | .80282 | 24 | .93201 |
| .63908 | 37 | .59646 | 1.67656 | .74312 | 1.34568 | 1.24588 | .80264 | 23 | .93171 |
| .63937 | 38 | .59669 | 1.67591 | .74357 | 1.34487 | 1.24615 | .80247 | 22 | .93142 |
| .63966 | 39 | .59693 | 1.67525 | .74402 | 1.34405 | 1.24642 | .80230 | 21 | .93113 |
| .63995 | 40 | .59716 | 1.67460 | .74447 | 1.34323 | 1.24669 | .80212 | 20 | .93084 |
| .64024 | 41 | .59739 | 1.67394 | .74492 | 1.34242 | 1.24696 | .80195 | 19 | .93055 |
| .64054 | 42 | .59763 | 1.67329 | .74537 | 1.34160 | 1.24723 | .80178 | 18 | .93026 |
| .64083 | 43 | .59786 | 1.67264 | .74583 | 1.34079 | 1.24750 | .80160 | 17 | .92997 |
| .64112 | 44 | .59809 | 1.67198 | .74628 | 1.33998 | 1.24777 | .80143 | 16 | .92968 |
| .64141 | 45 | .59832 | 1.67133 | .74674 | 1.33916 | 1.24804 | .80125 | 15 | .92939 |
| .64170 | 46 | .59856 | 1.67068 | .74719 | 1.33835 | 1.24832 | .80108 | 14 | .92910 |
| .64199 | 47 | .59879 | 1.67003 | .74764 | 1.33754 | 1.24859 | .80091 | 13 | .92881 |
| .64228 | 48 | .59902 | 1.66938 | .74810 | 1.33673 | 1.24886 | .80073 | 12 | .92852 |
| .64257 | 49 | .59926 | 1.66873 | .74855 | 1.33592 | 1.24913 | .80056 | 11 | .92822 |
| .64286 | 50 | .59949 | 1.66809 | .74900 | 1.33511 | 1.24940 | .80038 | 10 | .92793 |
| .64315 | 51 | .59972 | 1.66744 | .74946 | 1.33430 | 1.24967 | .80021 | 9 | .92764 |
| .64344 | 52 | .59995 | 1.66679 | .74991 | 1.33349 | 1.24995 | .80003 | 8 | .92735 |
| .64373 | 53 | .60019 | 1.66615 | .75037 | 1.33268 | 1.25022 | .79986 | 7 | .92706 |
| .64402 | 54 | .60042 | 1.66550 | .75082 | 1.33187 | 1.25049 | .79968 | 6 | .92677 |
| .64432 | 55 | .60065 | 1.66486 | .75128 | 1.33107 | 1.25077 | .79951 | 5 | .92648 |
| .64461 | 56 | .60089 | 1.66421 | .75173 | 1.33026 | 1.25104 | .79934 | 4 | .92619 |
| .64490 | 57 | .60112 | 1.66357 | .75219 | 1.32946 | 1.25131 | .79917 | 3 | .92590 |
| .64519 | 58 | .60135 | 1.66292 | .75264 | 1.32865 | 1.25159 | .79899 | 2 | .92561 |
| .64548 | 59 | .60158 | 1.66228 | .75310 | 1.32785 | 1.25186 | .79881 | 1 | .92532 |
| .64577 | 60 | .60182 | 1.66164 | .75355 | 1.32704 | 1.25214 | .79864 | 0 | .92502 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .64577 | 0 | .60182 | 1.66164 | .75355 | 1.32704 | 1.25214 | .79866 | 60 | .92502 |
| .64606 | 1 | .60205 | 1.66100 | .75401 | 1.32624 | 1.25241 | .79846 | 59 | .92473 |
| .64635 | 2 | .60228 | 1.66036 | .75447 | 1.32544 | 1.25269 | .79829 | 58 | .92444 |
| .64664 | 3 | .60251 | 1.65972 | .75492 | 1.32464 | 1.25296 | .79811 | 57 | .92415 |
| .64694 | 4 | .60274 | 1.65908 | .75538 | 1.32384 | 1.25324 | .79793 | 56 | .92386 |
| .64723 | 5 | .60298 | 1.65844 | .75584 | 1.32304 | 1.25351 | .79776 | 55 | .92357 |
| .64752 | 6 | .60321 | 1.65780 | .75629 | 1.32224 | 1.25379 | .79758 | 54 | .92328 |
| .64781 | 7 | .60344 | 1.65717 | .75675 | 1.32144 | 1.25406 | .79741 | 53 | .92299 |
| .64810 | 8 | .60367 | 1.65653 | .75721 | 1.32064 | 1.25434 | .79723 | 52 | .92270 |
| .64839 | 9 | .60390 | 1.65589 | .75767 | 1.31984 | 1.25462 | .79706 | 51 | .92241 |
| .64868 | 10 | .60414 | 1.65526 | .75812 | 1.31904 | 1.25489 | .79688 | 50 | .92212 |
| .64897 | 11 | .60437 | 1.65462 | .75858 | 1.31825 | 1.25517 | .79671 | 49 | .92182 |
| .64926 | 12 | .60460 | 1.65399 | .75904 | 1.31745 | 1.25545 | .79653 | 48 | .92153 |
| .64955 | 13 | .60483 | 1.65335 | .75950 | 1.31666 | 1.25572 | .79635 | 47 | .92124 |
| .64984 | 14 | .60506 | 1.65272 | .75996 | 1.31586 | 1.25600 | .79618 | 46 | .92095 |
| .65014 | 15 | .60529 | 1.65209 | .76042 | 1.31507 | 1.25628 | .79600 | 45 | .92066 |
| .65043 | 16 | .60553 | 1.65146 | .76088 | 1.31427 | 1.25656 | .79583 | 44 | .92037 |
| .65072 | 17 | .60576 | 1.65083 | .76134 | 1.31348 | 1.25683 | .79565 | 43 | .92008 |
| .65101 | 18 | .60599 | 1.65020 | .76180 | 1.31269 | 1.25711 | .79547 | 42 | .91979 |
| .65130 | 19 | .60622 | 1.64957 | .76226 | 1.31190 | 1.25739 | .79530 | 41 | .91950 |
| .65159 | 20 | .60645 | 1.64893 | .76272 | 1.31111 | 1.25767 | .79512 | 40 | .91921 |
| .65188 | 21 | .60669 | 1.64829 | .76318 | 1.31032 | 1.25795 | .79494 | 39 | .91892 |
| .65217 | 22 | .60691 | 1.64765 | .76364 | 1.30952 | 1.25823 | .79477 | 38 | .91862 |
| .65246 | 23 | .60714 | 1.64701 | .76410 | 1.30873 | 1.25851 | .79459 | 37 | .91833 |
| .65275 | 24 | .60738 | 1.64637 | .76456 | 1.30795 | 1.25879 | .79441 | 36 | .91804 |
| .65304 | 25 | .60761 | 1.64573 | .76502 | 1.30716 | 1.25907 | .79424 | 35 | .91775 |
| .65333 | 26 | .60784 | 1.64508 | .76548 | 1.30637 | 1.25935 | .79406 | 34 | .91746 |
| .65363 | 27 | .60807 | 1.64445 | .76594 | 1.30558 | 1.25963 | .79388 | 33 | .91717 |
| .65392 | 28 | .60830 | 1.64381 | .76640 | 1.30480 | 1.25991 | .79371 | 32 | .91688 |
| .65421 | 29 | .60853 | 1.64317 | .76686 | 1.30401 | 1.26019 | .79353 | 31 | .91659 |
| .65450 | 30 | .60876 | 1.64253 | .76732 | 1.30323 | 1.26047 | .79335 | 30 | .91630 |
| .65479 | 31 | .60899 | 1.64189 | .76779 | 1.30244 | 1.26075 | .79318 | 29 | .91601 |
| .65508 | 32 | .60922 | 1.64124 | .76825 | 1.30166 | 1.26104 | .79300 | 28 | .91572 |
| .65537 | 33 | .60945 | 1.64060 | .76871 | 1.30087 | 1.26132 | .79282 | 27 | .91543 |
| .65566 | 34 | .60968 | 1.64000 | .76918 | 1.30009 | 1.26160 | .79264 | 26 | .91513 |
| .65595 | 35 | .60991 | 1.63935 | .76964 | 1.29931 | 1.26188 | .79247 | 25 | .91484 |
| .65624 | 36 | .61015 | 1.63870 | .77010 | 1.29853 | 1.26216 | .79229 | 24 | .91455 |
| .65653 | 37 | .61038 | 1.63804 | .77057 | 1.29775 | 1.26245 | .79211 | 23 | .91426 |
| .65683 | 38 | .61061 | 1.63739 | .77103 | 1.29696 | 1.26273 | .79193 | 22 | .91397 |
| .65712 | 39 | .61084 | 1.63673 | .77149 | 1.29618 | 1.26301 | .79176 | 21 | .91368 |
| .65741 | 40 | .61107 | 1.63608 | .77196 | 1.29541 | 1.26330 | .79158 | 20 | .91339 |
| .65770 | 41 | .61130 | 1.63542 | .77242 | 1.29463 | 1.26358 | .79140 | 19 | .91310 |
| .65799 | 42 | .61153 | 1.63476 | .77289 | 1.29385 | 1.26387 | .79122 | 18 | .91281 |
| .65828 | 43 | .61176 | 1.63410 | .77335 | 1.29307 | 1.26415 | .79105 | 17 | .91252 |
| .65857 | 44 | .61199 | 1.63344 | .77382 | 1.29229 | 1.26443 | .79087 | 16 | .91223 |
| .65886 | 45 | .61222 | 1.63278 | .77428 | 1.29152 | 1.26472 | .79069 | 15 | .91193 |
| .65915 | 46 | .61245 | 1.63212 | .77475 | 1.29074 | 1.26500 | .79051 | 14 | .91164 |
| .65944 | 47 | .61268 | 1.63146 | .77521 | 1.28997 | 1.26529 | .79033 | 13 | .91135 |
| .65973 | 48 | .61291 | 1.63080 | .77568 | 1.28919 | 1.26557 | .79016 | 12 | .91106 |
| .66003 | 49 | .61314 | 1.63014 | .77615 | 1.28842 | 1.26586 | .78998 | 11 | .91077 |
| .66032 | 50 | .61337 | 1.62948 | .77661 | 1.28764 | 1.26615 | .78980 | 10 | .91048 |
| .66061 | 51 | .61360 | 1.62882 | .77708 | 1.28687 | 1.26643 | .78962 | 9 | .91019 |
| .66090 | 52 | .61383 | 1.62816 | .77754 | 1.28610 | 1.26672 | .78944 | 8 | .90990 |
| .66119 | 53 | .61406 | 1.62750 | .77801 | 1.28533 | 1.26701 | .78926 | 7 | .90961 |
| .66148 | 54 | .61429 | 1.62684 | .77848 | 1.28456 | 1.26729 | .78908 | 6 | .90932 |
| .66177 | 55 | .61451 | 1.62618 | .77895 | 1.28379 | 1.26758 | .78891 | 5 | .90903 |
| .66206 | 56 | .61474 | 1.62552 | .77941 | 1.28302 | 1.26787 | .78873 | 4 | .90873 |
| .66235 | 57 | .61497 | 1.62486 | .77988 | 1.28225 | 1.26815 | .78855 | 3 | .90844 |
| .66264 | 58 | .61520 | 1.62420 | .78035 | 1.28148 | 1.26844 | .78837 | 2 | .90815 |
| .66293 | 59 | .61543 | 1.62354 | .78082 | 1.28071 | 1.26873 | .78819 | 1 | .90786 |
| .66323 | 60 | .61566 | 1.62288 | .78129 | 1.27994 | 1.26902 | .78801 | 0 | .90757 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .66323 | 0 | .61566 | 1.62427 | .78129 | 1.27994 | 1.26902 | .78801 | 60 | .90757 |
| .66352 | 1 | .61589 | 1.62366 | .78175 | 1.27917 | 1.26931 | .78783 | 59 | .90728 |
| .66381 | 2 | .61612 | 1.62306 | .78222 | 1.27841 | 1.26960 | .78765 | 58 | .90699 |
| .66410 | 3 | .61635 | 1.62246 | .78269 | 1.27764 | 1.26988 | .78747 | 57 | .90670 |
| .66439 | 4 | .61658 | 1.62185 | .78316 | 1.27688 | 1.27017 | .78729 | 56 | .90641 |
| .66468 | 5 | .61681 | 1.62125 | .78363 | 1.27611 | 1.27046 | .78711 | 55 | .90612 |
| .66497 | 6 | .61704 | 1.62065 | .78410 | 1.27535 | 1.27075 | .78694 | 54 | .90583 |
| .66526 | 7 | .61726 | 1.62005 | .78457 | 1.27458 | 1.27104 | .78676 | 53 | .90553 |
| .66555 | 8 | .61749 | 1.61945 | .78504 | 1.27382 | 1.27133 | .78658 | 52 | .90524 |
| .66584 | 9 | .61772 | 1.61885 | .78551 | 1.27306 | 1.27162 | .78640 | 51 | .90495 |
| .66613 | 10 | .61795 | 1.61825 | .78598 | 1.27230 | 1.27191 | .78622 | 50 | .90466 |
| .66642 | 11 | .61818 | 1.61765 | .78645 | 1.27153 | 1.27221 | .78604 | 49 | .90437 |
| .66671 | 12 | .61841 | 1.61705 | .78692 | 1.27077 | 1.27250 | .78586 | 48 | .90408 |
| .66701 | 13 | .61864 | 1.61646 | .78739 | 1.27001 | 1.27279 | .78568 | 47 | .90379 |
| .66730 | 14 | .61887 | 1.61586 | .78786 | 1.26925 | 1.27308 | .78550 | 46 | .90350 |
| .66759 | 15 | .61909 | 1.61526 | .78834 | 1.26849 | 1.27337 | .78532 | 45 | .90321 |
| .66788 | 16 | .61932 | 1.61467 | .78881 | 1.26774 | 1.27366 | .78514 | 44 | .90292 |
| .66817 | 17 | .61955 | 1.61407 | .78928 | 1.26698 | 1.27396 | .78496 | 43 | .90263 |
| .66846 | 18 | .61978 | 1.61348 | .78975 | 1.26622 | 1.27425 | .78478 | 42 | .90234 |
| .66875 | 19 | .62001 | 1.61288 | .79022 | 1.26546 | 1.27454 | .78460 | 41 | .90204 |
| .66904 | 20 | .62024 | 1.61229 | .79070 | 1.26471 | 1.27483 | .78442 | 40 | .90175 |
| .66933 | 21 | .62046 | 1.61170 | .79117 | 1.26395 | 1.27513 | .78424 | 39 | .90146 |
| .66962 | 22 | .62069 | 1.61111 | .79164 | 1.26319 | 1.27542 | .78405 | 38 | .90117 |
| .66992 | 23 | .62092 | 1.61051 | .79212 | 1.26244 | 1.27572 | .78387 | 37 | .90088 |
| .67021 | 24 | .62115 | 1.60992 | .79259 | 1.26169 | 1.27601 | .78369 | 36 | .90059 |
| .67050 | 25 | .62138 | 1.60933 | .79306 | 1.26093 | 1.27630 | .78351 | 35 | .90030 |
| .67079 | 26 | .62160 | 1.60874 | .79354 | 1.26018 | 1.27660 | .78333 | 34 | .90001 |
| .67108 | 27 | .62183 | 1.60815 | .79401 | 1.25943 | 1.27689 | .78315 | 33 | .89972 |
| .67137 | 28 | .62206 | 1.60756 | .79449 | 1.25867 | 1.27719 | .78297 | 32 | .89943 |
| .67166 | 29 | .62229 | 1.60698 | .79496 | 1.25792 | 1.27748 | .78279 | 31 | .89914 |
| .67195 | 30 | .62251 | 1.60639 | .79544 | 1.25717 | 1.27778 | .78261 | 30 | .89884 |
| .67224 | 31 | .62274 | 1.60580 | .79591 | 1.25642 | 1.27807 | .78243 | 29 | .89855 |
| .67253 | 32 | .62297 | 1.60521 | .79639 | 1.25567 | 1.27837 | .78225 | 28 | .89826 |
| .67282 | 33 | .62320 | 1.60463 | .79686 | 1.25492 | 1.27867 | .78206 | 27 | .89797 |
| .67312 | 34 | .62342 | 1.60404 | .79734 | 1.25417 | 1.27896 | .78188 | 26 | .89768 |
| .67341 | 35 | .62365 | 1.60346 | .79781 | 1.25343 | 1.27926 | .78170 | 25 | .89739 |
| .67370 | 36 | .62388 | 1.60287 | .79829 | 1.25268 | 1.27956 | .78152 | 24 | .89710 |
| .67399 | 37 | .62411 | 1.60229 | .79877 | 1.25193 | 1.27985 | .78134 | 23 | .89681 |
| .67428 | 38 | .62433 | 1.60171 | .79924 | 1.25118 | 1.28015 | .78116 | 22 | .89652 |
| .67457 | 39 | .62456 | 1.60112 | .79972 | 1.25044 | 1.28045 | .78098 | 21 | .89623 |
| .67486 | 40 | .62479 | 1.60054 | .80020 | 1.24969 | 1.28075 | .78079 | 20 | .89594 |
| .67515 | 41 | .62502 | 1.59996 | .80067 | 1.24895 | 1.28105 | .78061 | 19 | .89564 |
| .67544 | 42 | .62524 | 1.59938 | .80115 | 1.24820 | 1.28134 | .78043 | 18 | .89535 |
| .67573 | 43 | .62547 | 1.59880 | .80163 | 1.24746 | 1.28164 | .78025 | 17 | .89506 |
| .67602 | 44 | .62570 | 1.59822 | .80211 | 1.24672 | 1.28194 | .78007 | 16 | .89477 |
| .67632 | 45 | .62592 | 1.59764 | .80258 | 1.24597 | 1.28224 | .77988 | 15 | .89448 |
| .67661 | 46 | .62615 | 1.59706 | .80306 | 1.24523 | 1.28254 | .77970 | 14 | .89419 |
| .67690 | 47 | .62638 | 1.59648 | .80354 | 1.24449 | 1.28284 | .77952 | 13 | .89390 |
| .67719 | 48 | .62660 | 1.59590 | .80402 | 1.24375 | 1.28314 | .77934 | 12 | .89361 |
| .67748 | 49 | .62683 | 1.59533 | .80450 | 1.24301 | 1.28344 | .77916 | 11 | .89332 |
| .67777 | 50 | .62706 | 1.59475 | .80498 | 1.24227 | 1.28374 | .77897 | 10 | .89303 |
| .67806 | 51 | .62728 | 1.59418 | .80546 | 1.24153 | 1.28404 | .77879 | 9 | .89274 |
| .67835 | 52 | .62751 | 1.59360 | .80594 | 1.24079 | 1.28434 | .77861 | 8 | .89245 |
| .67864 | 53 | .62774 | 1.59302 | .80642 | 1.24005 | 1.28464 | .77843 | 7 | .89215 |
| .67893 | 54 | .62796 | 1.59245 | .80690 | 1.23931 | 1.28495 | .77824 | 6 | .89186 |
| .67922 | 55 | .62819 | 1.59188 | .80738 | 1.23858 | 1.28525 | .77806 | 5 | .89157 |
| .67951 | 56 | .62842 | 1.59130 | .80786 | 1.23784 | 1.28555 | .77788 | 4 | .89128 |
| .67981 | 57 | .62864 | 1.59073 | .80834 | 1.23710 | 1.28585 | .77769 | 3 | .89099 |
| .68010 | 58 | .62887 | 1.59016 | .80882 | 1.23637 | 1.28615 | .77751 | 2 | .89070 |
| .68039 | 59 | .62909 | 1.58959 | .80930 | 1.23563 | 1.28645 | .77733 | 1 | .89041 |
| .68068 | 60 | .62932 | 1.58902 | .80978 | 1.23490 | 1.28676 | .77715 | 0 | .89012 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .68068 | 0 | .62932 | 1.58902 | .80978 | 1.23490 | 1.28676 | .77712 | 60 | .89012 |
| .68097 | 1 | .62955 | 1.58845 | .81027 | 1.23416 | 1.28706 | .77696 | 59 | .88983 |
| .68126 | 2 | .62977 | 1.58788 | .81075 | 1.23343 | 1.28737 | .77678 | 58 | .88954 |
| .68155 | 3 | .63000 | 1.58731 | .81123 | 1.23270 | 1.28767 | .77660 | 57 | .88925 |
| .68184 | 4 | .63022 | 1.58674 | .81171 | 1.23196 | 1.28797 | .77641 | 56 | .88895 |
| .68213 | 5 | .63045 | 1.58617 | .81220 | 1.23123 | 1.28828 | .77623 | 55 | .88866 |
| .68242 | 6 | .63068 | 1.58560 | .81268 | 1.23050 | 1.28858 | .77605 | 54 | .88837 |
| .68271 | 7 | .63090 | 1.58503 | .81316 | 1.22977 | 1.28889 | .77586 | 53 | .88808 |
| .68301 | 8 | .63113 | 1.58447 | .81364 | 1.22904 | 1.28919 | .77568 | 52 | .88779 |
| .68330 | 9 | .63135 | 1.58390 | .81413 | 1.22831 | 1.28950 | .77550 | 51 | .88750 |
| .68359 | 10 | .63158 | 1.58333 | .81461 | 1.22758 | 1.28980 | .77531 | 50 | .88721 |
| .68388 | 11 | .63180 | 1.58277 | .81510 | 1.22685 | 1.29011 | .77513 | 49 | .88692 |
| .68417 | 12 | .63203 | 1.58221 | .81558 | 1.22612 | 1.29042 | .77494 | 48 | .88663 |
| .68446 | 13 | .63225 | 1.58164 | .81606 | 1.22539 | 1.29072 | .77476 | 47 | .88634 |
| .68475 | 14 | .63248 | 1.58108 | .81655 | 1.22467 | 1.29103 | .77458 | 46 | .88605 |
| .68504 | 15 | .63271 | 1.58051 | .81703 | 1.22394 | 1.29133 | .77439 | 45 | .88575 |
| .68533 | 16 | .63293 | 1.57995 | .81752 | 1.22321 | 1.29164 | .77421 | 44 | .88546 |
| .68562 | 17 | .63316 | 1.57939 | .81800 | 1.22249 | 1.29195 | .77402 | 43 | .88517 |
| .68591 | 18 | .63338 | 1.57883 | .81849 | 1.22176 | 1.29226 | .77384 | 42 | .88488 |
| .68621 | 19 | .63361 | 1.57827 | .81898 | 1.22104 | 1.29256 | .77366 | 41 | .88459 |
| .68650 | 20 | .63383 | 1.57771 | .81946 | 1.22031 | 1.29287 | .77347 | 40 | .88430 |
| .68679 | 21 | .63406 | 1.57715 | .81995 | 1.21959 | 1.29318 | .77329 | 39 | .88401 |
| .68708 | 22 | .63428 | 1.57659 | .82044 | 1.21886 | 1.29349 | .77310 | 38 | .88372 |
| .68737 | 23 | .63451 | 1.57603 | .82092 | 1.21814 | 1.29380 | .77292 | 37 | .88343 |
| .68766 | 24 | .63473 | 1.57547 | .82141 | 1.21742 | 1.29411 | .77273 | 36 | .88314 |
| .68795 | 25 | .63496 | 1.57491 | .82190 | 1.21670 | 1.29442 | .77255 | 35 | .88285 |
| .68824 | 26 | .63518 | 1.57436 | .82238 | 1.21598 | 1.29473 | .77236 | 34 | .88255 |
| .68853 | 27 | .63540 | 1.57380 | .82287 | 1.21526 | 1.29504 | .77218 | 33 | .88226 |
| .68882 | 28 | .63563 | 1.57324 | .82336 | 1.21454 | 1.29535 | .77199 | 32 | .88197 |
| .68911 | 29 | .63585 | 1.57269 | .82385 | 1.21382 | 1.29566 | .77181 | 31 | .88168 |
| .68941 | 30 | .63608 | 1.57213 | .82434 | 1.21310 | 1.29597 | .77162 | 30 | .88139 |
| .68970 | 31 | .63630 | 1.57158 | .82483 | 1.21238 | 1.29628 | .77144 | 29 | .88110 |
| .68999 | 32 | .63653 | 1.57103 | .82531 | 1.21166 | 1.29659 | .77125 | 28 | .88081 |
| .69028 | 33 | .63675 | 1.57047 | .82580 | 1.21094 | 1.29690 | .77107 | 27 | .88052 |
| .69057 | 34 | .63698 | 1.56992 | .82629 | 1.21023 | 1.29721 | .77088 | 26 | .88023 |
| .69086 | 35 | .63720 | 1.56937 | .82678 | 1.20951 | 1.29752 | .77070 | 25 | .87994 |
| .69115 | 36 | .63742 | 1.56881 | .82727 | 1.20879 | 1.29784 | .77051 | 24 | .87965 |
| .69144 | 37 | .63765 | 1.56826 | .82776 | 1.20808 | 1.29815 | .77033 | 23 | .87936 |
| .69173 | 38 | .63787 | 1.56771 | .82825 | 1.20736 | 1.29846 | .77014 | 22 | .87906 |
| .69202 | 39 | .63811 | 1.56715 | .82874 | 1.20665 | 1.29877 | .76996 | 21 | .87877 |
| .69231 | 40 | .63833 | 1.56659 | .82923 | 1.20593 | 1.29909 | .76977 | 20 | .87848 |
| .69260 | 41 | .63856 | 1.56606 | .82972 | 1.20522 | 1.29940 | .76959 | 19 | .87819 |
| .69290 | 42 | .63877 | 1.56551 | .83022 | 1.20451 | 1.29971 | .76940 | 18 | .87790 |
| .69319 | 43 | .63899 | 1.56497 | .83071 | 1.20379 | 1.30003 | .76921 | 17 | .87761 |
| .69348 | 44 | .63922 | 1.56442 | .83120 | 1.20308 | 1.30034 | .76903 | 16 | .87732 |
| .69377 | 45 | .63944 | 1.56387 | .83169 | 1.20237 | 1.30066 | .76884 | 15 | .87703 |
| .69406 | 46 | .63966 | 1.56332 | .83218 | 1.20166 | 1.30097 | .76866 | 14 | .87674 |
| .69435 | 47 | .63989 | 1.56278 | .83268 | 1.20095 | 1.30129 | .76847 | 13 | .87645 |
| .69464 | 48 | .64011 | 1.56223 | .83317 | 1.20024 | 1.30160 | .76828 | 12 | .87616 |
| .69493 | 49 | .64033 | 1.56169 | .83366 | 1.19953 | 1.30192 | .76810 | 11 | .87586 |
| .69522 | 50 | .64056 | 1.56114 | .83415 | 1.19882 | 1.30223 | .76791 | 10 | .87557 |
| .69551 | 51 | .64078 | 1.56060 | .83465 | 1.19811 | 1.30255 | .76772 | 9 | .87528 |
| .69580 | 52 | .64100 | 1.56005 | .83514 | 1.19740 | 1.30287 | .76754 | 8 | .87499 |
| .69610 | 53 | .64123 | 1.55951 | .83564 | 1.19669 | 1.30318 | .76735 | 7 | .87470 |
| .69639 | 54 | .64145 | 1.55897 | .83613 | 1.19599 | 1.30350 | .76717 | 6 | .87441 |
| .69668 | 55 | .64167 | 1.55843 | .83662 | 1.19528 | 1.30382 | .76698 | 5 | .87412 |
| .69697 | 56 | .64190 | 1.55789 | .83712 | 1.19457 | 1.30413 | .76679 | 4 | .87383 |
| .69726 | 57 | .64212 | 1.55734 | .83761 | 1.19387 | 1.30445 | .76661 | 3 | .87354 |
| .69755 | 58 | .64234 | 1.55680 | .83811 | 1.19316 | 1.30477 | .76642 | 2 | .87325 |
| .69784 | 59 | .64256 | 1.55626 | .83860 | 1.19246 | 1.30509 | .76623 | 1 | .87296 |
| .69813 | 60 | .64279 | 1.55572 | .83910 | 1.19175 | 1.30541 | .76604 | 0 | .87266 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | ' | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | ' | Arc. |
|-------|----|--------|---------|--------|---------|---------|--------|----|--------|
| 69813 | 0 | .64279 | 1.55572 | .83910 | 1.19175 | 1.30541 | .76604 | 60 | .87266 |
| 69842 | 1 | .64301 | 1.55518 | .83960 | 1.19105 | 1.30573 | .76586 | 59 | .87237 |
| 69871 | 2 | .64323 | 1.55465 | .84009 | 1.19035 | 1.30605 | .76567 | 58 | .87208 |
| 69900 | 3 | .64346 | 1.55411 | .84059 | 1.18964 | 1.30636 | .76548 | 57 | .87179 |
| 69930 | 4 | .64368 | 1.55357 | .84108 | 1.18894 | 1.30668 | .76530 | 56 | .87150 |
| 69959 | 5 | .64390 | 1.55303 | .84158 | 1.18824 | 1.30700 | .76511 | 55 | .87121 |
| 69988 | 6 | .64412 | 1.55250 | .84208 | 1.18754 | 1.30732 | .76492 | 54 | .87092 |
| 70017 | 7 | .64435 | 1.55196 | .84258 | 1.18684 | 1.30764 | .76473 | 53 | .87063 |
| 70046 | 8 | .64457 | 1.55143 | .84307 | 1.18614 | 1.30796 | .76455 | 52 | .87034 |
| 70075 | 9 | .64479 | 1.55089 | .84357 | 1.18544 | 1.30829 | .76436 | 51 | .87005 |
| 70104 | 10 | .64501 | 1.55036 | .84407 | 1.18474 | 1.30861 | .76417 | 50 | .86976 |
| 70133 | 11 | .64524 | 1.54982 | .84457 | 1.18404 | 1.30893 | .76398 | 49 | .86946 |
| 70162 | 12 | .64546 | 1.54929 | .84507 | 1.18334 | 1.30925 | .76380 | 48 | .86917 |
| 70191 | 13 | .64568 | 1.54876 | .84556 | 1.18264 | 1.30957 | .76361 | 47 | .86888 |
| 70220 | 14 | .64590 | 1.54822 | .84606 | 1.18194 | 1.30989 | .76342 | 46 | .86859 |
| 70250 | 15 | .64612 | 1.54769 | .84656 | 1.18125 | 1.31022 | .76323 | 45 | .86830 |
| 70279 | 16 | .64635 | 1.54716 | .84706 | 1.18055 | 1.31054 | .76304 | 44 | .86801 |
| 70308 | 17 | .64657 | 1.54663 | .84756 | 1.17986 | 1.31086 | .76286 | 43 | .86772 |
| 70337 | 18 | .64679 | 1.54610 | .84806 | 1.17916 | 1.31119 | .76267 | 42 | .86743 |
| 70366 | 19 | .64701 | 1.54557 | .84856 | 1.17846 | 1.31151 | .76248 | 41 | .86714 |
| 70395 | 20 | .64723 | 1.54504 | .84906 | 1.17777 | 1.31183 | .76229 | 40 | .86685 |
| 70424 | 21 | .64746 | 1.54451 | .84956 | 1.17708 | 1.31216 | .76210 | 39 | .86656 |
| 70453 | 22 | .64768 | 1.54398 | .85006 | 1.17638 | 1.31248 | .76192 | 38 | .86627 |
| 70482 | 23 | .64790 | 1.54345 | .85057 | 1.17569 | 1.31281 | .76173 | 37 | .86597 |
| 70511 | 24 | .64812 | 1.54292 | .85107 | 1.17500 | 1.31313 | .76154 | 36 | .86568 |
| 70540 | 25 | .64834 | 1.54240 | .85157 | 1.17430 | 1.31346 | .76135 | 35 | .86539 |
| 70569 | 26 | .64856 | 1.54187 | .85207 | 1.17361 | 1.31378 | .76116 | 34 | .86510 |
| 70599 | 27 | .64878 | 1.54134 | .85257 | 1.17292 | 1.31411 | .76097 | 33 | .86481 |
| 70628 | 28 | .64901 | 1.54082 | .85308 | 1.17223 | 1.31443 | .76078 | 32 | .86452 |
| 70657 | 29 | .64923 | 1.54029 | .85358 | 1.17154 | 1.31476 | .76059 | 31 | .86423 |
| 70686 | 30 | .64945 | 1.53977 | .85408 | 1.17085 | 1.31509 | .76041 | 30 | .86394 |
| 70715 | 31 | .64967 | 1.53924 | .85458 | 1.17016 | 1.31541 | .76022 | 29 | .86365 |
| 70744 | 32 | .64989 | 1.53872 | .85509 | 1.16947 | 1.31574 | .76003 | 28 | .86336 |
| 70773 | 33 | .65011 | 1.53820 | .85559 | 1.16878 | 1.31607 | .75984 | 27 | .86307 |
| 70802 | 34 | .65033 | 1.53768 | .85609 | 1.16809 | 1.31640 | .75965 | 26 | .86277 |
| 70831 | 35 | .65055 | 1.53715 | .85660 | 1.16741 | 1.31672 | .75946 | 25 | .86248 |
| 70860 | 36 | .65077 | 1.53663 | .85710 | 1.16672 | 1.31705 | .75927 | 24 | .86219 |
| 70889 | 37 | .65100 | 1.53611 | .85761 | 1.16603 | 1.31738 | .75908 | 23 | .86190 |
| 70918 | 38 | .65122 | 1.53559 | .85811 | 1.16535 | 1.31771 | .75889 | 22 | .86161 |
| 70948 | 39 | .65144 | 1.53507 | .85862 | 1.16466 | 1.31804 | .75870 | 21 | .86132 |
| 70977 | 40 | .65166 | 1.53455 | .85912 | 1.16398 | 1.31837 | .75851 | 20 | .86103 |
| 71006 | 41 | .65188 | 1.53403 | .85963 | 1.16329 | 1.31870 | .75832 | 19 | .86074 |
| 71035 | 42 | .65210 | 1.53351 | .86014 | 1.16261 | 1.31903 | .75813 | 18 | .86045 |
| 71064 | 43 | .65232 | 1.53299 | .86064 | 1.16192 | 1.31936 | .75794 | 17 | .86016 |
| 71093 | 44 | .65254 | 1.53247 | .86115 | 1.16124 | 1.31969 | .75775 | 16 | .85987 |
| 71122 | 45 | .65276 | 1.53196 | .86166 | 1.16056 | 1.32002 | .75756 | 15 | .85957 |
| 71151 | 46 | .65298 | 1.53144 | .86216 | 1.15987 | 1.32035 | .75738 | 14 | .85928 |
| 71180 | 47 | .65320 | 1.53092 | .86267 | 1.15919 | 1.32068 | .75719 | 13 | .85899 |
| 71209 | 48 | .65342 | 1.53041 | .86318 | 1.15851 | 1.32101 | .75700 | 12 | .85870 |
| 71239 | 49 | .65364 | 1.52989 | .86368 | 1.15783 | 1.32134 | .75681 | 11 | .85841 |
| 71268 | 50 | .65386 | 1.52938 | .86419 | 1.15715 | 1.32168 | .75661 | 10 | .85812 |
| 71297 | 51 | .65408 | 1.52886 | .86470 | 1.15647 | 1.32201 | .75642 | 9 | .85783 |
| 71326 | 52 | .65430 | 1.52835 | .86521 | 1.15579 | 1.32234 | .75623 | 8 | .85754 |
| 71355 | 53 | .65452 | 1.52784 | .86572 | 1.15511 | 1.32267 | .75604 | 7 | .85725 |
| 71384 | 54 | .65474 | 1.52732 | .86623 | 1.15443 | 1.32301 | .75585 | 6 | .85696 |
| 71413 | 55 | .65496 | 1.52681 | .86674 | 1.15375 | 1.32334 | .75566 | 5 | .85667 |
| 71442 | 56 | .65518 | 1.52630 | .86725 | 1.15308 | 1.32368 | .75547 | 4 | .85637 |
| 71471 | 57 | .65540 | 1.52579 | .86776 | 1.15240 | 1.32401 | .75528 | 3 | .85608 |
| 71500 | 58 | .65562 | 1.52527 | .86827 | 1.15172 | 1.32434 | .75509 | 2 | .85579 |
| 71529 | 59 | .65584 | 1.52476 | .86878 | 1.15104 | 1.32468 | .75490 | 1 | .85550 |
| 71558 | 60 | .65606 | 1.52425 | .86929 | 1.15037 | 1.32501 | .75471 | 0 | .85521 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|--------|---------|---------|--------|----|--------|
| .75049 | 0 | .68200 | 1.46628 | .93252 | 1.07237 | 1.36733 | .73130 | 60 | .82030 |
| .75078 | 1 | .68221 | 1.46582 | .93306 | 1.07174 | 1.36770 | .73165 | 59 | .82001 |
| .75107 | 2 | .68242 | 1.46537 | .93360 | 1.07112 | 1.36807 | .73096 | 58 | .81972 |
| .75136 | 3 | .68264 | 1.46491 | .93415 | 1.07049 | 1.36844 | .73076 | 57 | .81943 |
| .75166 | 4 | .68285 | 1.46445 | .93469 | 1.06987 | 1.36881 | .73056 | 56 | .81914 |
| .75195 | 5 | .68306 | 1.46400 | .93524 | 1.06925 | 1.36919 | .73036 | 55 | .81885 |
| .75224 | 6 | .68327 | 1.46354 | .93578 | 1.06862 | 1.36956 | .73016 | 54 | .81856 |
| .75253 | 7 | .68349 | 1.46309 | .93633 | 1.06800 | 1.36993 | .72996 | 53 | .81827 |
| .75282 | 8 | .68370 | 1.46263 | .93688 | 1.06738 | 1.37030 | .72976 | 52 | .81798 |
| .75311 | 9 | .68391 | 1.46218 | .93742 | 1.06676 | 1.37068 | .72957 | 51 | .81769 |
| .75340 | 10 | .68412 | 1.46173 | .93797 | 1.06613 | 1.37105 | .72937 | 50 | .81740 |
| .75369 | 11 | .68434 | 1.46127 | .93852 | 1.06551 | 1.37143 | .72917 | 49 | .81710 |
| .75398 | 12 | .68455 | 1.46082 | .93906 | 1.06489 | 1.37180 | .72897 | 48 | .81681 |
| .75427 | 13 | .68476 | 1.46037 | .93961 | 1.06427 | 1.37218 | .72877 | 47 | .81652 |
| .75456 | 14 | .68497 | 1.45992 | .94016 | 1.06365 | 1.37255 | .72857 | 46 | .81623 |
| .75485 | 15 | .68518 | 1.45946 | .94071 | 1.06303 | 1.37293 | .72837 | 45 | .81594 |
| .75515 | 16 | .68539 | 1.45901 | .94125 | 1.06241 | 1.37330 | .72817 | 44 | .81565 |
| .75544 | 17 | .68561 | 1.45856 | .94180 | 1.06179 | 1.37368 | .72797 | 43 | .81536 |
| .75573 | 18 | .68582 | 1.45811 | .94235 | 1.06117 | 1.37406 | .72777 | 42 | .81507 |
| .75602 | 19 | .68603 | 1.45766 | .94290 | 1.06056 | 1.37443 | .72757 | 41 | .81478 |
| .75631 | 20 | .68624 | 1.45721 | .94345 | 1.05994 | 1.37481 | .72737 | 40 | .81449 |
| .75660 | 21 | .68645 | 1.45676 | .94400 | 1.05932 | 1.37519 | .72717 | 39 | .81420 |
| .75689 | 22 | .68666 | 1.45631 | .94455 | 1.05870 | 1.37556 | .72697 | 38 | .81391 |
| .75718 | 23 | .68688 | 1.45587 | .94510 | 1.05809 | 1.37594 | .72677 | 37 | .81361 |
| .75747 | 24 | .68709 | 1.45542 | .94565 | 1.05747 | 1.37632 | .72657 | 36 | .81332 |
| .75776 | 25 | .68730 | 1.45497 | .94620 | 1.05685 | 1.37670 | .72637 | 35 | .81303 |
| .75805 | 26 | .68751 | 1.45452 | .94676 | 1.05624 | 1.37708 | .72617 | 34 | .81274 |
| .75835 | 27 | .68772 | 1.45408 | .94731 | 1.05562 | 1.37746 | .72597 | 33 | .81245 |
| .75864 | 28 | .68793 | 1.45363 | .94786 | 1.05501 | 1.37784 | .72577 | 32 | .81216 |
| .75893 | 29 | .68814 | 1.45319 | .94841 | 1.05439 | 1.37822 | .72557 | 31 | .81187 |
| .75922 | 30 | .68835 | 1.45274 | .94896 | 1.05378 | 1.37860 | .72537 | 30 | .81158 |
| .75951 | 31 | .68857 | 1.45229 | .94952 | 1.05317 | 1.37898 | .72517 | 29 | .81129 |
| .75980 | 32 | .68878 | 1.45185 | .95007 | 1.05255 | 1.37936 | .72497 | 28 | .81100 |
| .76009 | 33 | .68899 | 1.45141 | .95062 | 1.05194 | 1.37974 | .72477 | 27 | .81071 |
| .76038 | 34 | .68920 | 1.45096 | .95118 | 1.05133 | 1.38012 | .72457 | 26 | .81041 |
| .76067 | 35 | .68941 | 1.45052 | .95173 | 1.05072 | 1.38051 | .72437 | 25 | .81012 |
| .76096 | 36 | .68962 | 1.45007 | .95229 | 1.05010 | 1.38089 | .72417 | 24 | .80983 |
| .76125 | 37 | .68983 | 1.44963 | .95284 | 1.04949 | 1.38127 | .72397 | 23 | .80954 |
| .76155 | 38 | .69004 | 1.44919 | .95340 | 1.04888 | 1.38165 | .72377 | 22 | .80925 |
| .76184 | 39 | .69025 | 1.44875 | .95395 | 1.04827 | 1.38204 | .72357 | 21 | .80896 |
| .76213 | 40 | .69046 | 1.44831 | .95451 | 1.04766 | 1.38242 | .72337 | 20 | .80867 |
| .76242 | 41 | .69067 | 1.44787 | .95506 | 1.04705 | 1.38280 | .72317 | 19 | .80838 |
| .76271 | 42 | .69088 | 1.44743 | .95562 | 1.04644 | 1.38319 | .72297 | 18 | .80809 |
| .76300 | 43 | .69109 | 1.44698 | .95618 | 1.04583 | 1.38357 | .72277 | 17 | .80780 |
| .76329 | 44 | .69130 | 1.44654 | .95673 | 1.04522 | 1.38396 | .72257 | 16 | .80751 |
| .76358 | 45 | .69151 | 1.44610 | .95729 | 1.04461 | 1.38434 | .72236 | 15 | .80721 |
| .76387 | 46 | .69172 | 1.44567 | .95785 | 1.04401 | 1.38473 | .72216 | 14 | .80692 |
| .76416 | 47 | .69193 | 1.44523 | .95841 | 1.04340 | 1.38512 | .72196 | 13 | .80663 |
| .76445 | 48 | .69214 | 1.44479 | .95897 | 1.04279 | 1.38550 | .72176 | 12 | .80634 |
| .76474 | 49 | .69235 | | | | | | 11 | .80605 |
| .76503 | 50 | .69256 | | | | | | 10 | .80576 |
| .76532 | 51 | .69277 | | | | | | 9 | .80547 |
| .76561 | 52 | .69298 | 1.44304 | .96120 | 1.04036 | 1.38705 | .72095 | 8 | .80518 |
| .76591 | 53 | .69319 | 1.44260 | .96176 | 1.03976 | 1.38744 | .72075 | 7 | .80489 |
| .76620 | 54 | .69340 | 1.44217 | .96232 | 1.03915 | 1.38783 | .72055 | 6 | .80460 |
| .76649 | 55 | .69361 | 1.44173 | .96288 | 1.03855 | 1.38822 | .72035 | 5 | .80431 |
| .76678 | 56 | .69382 | 1.44129 | .96344 | 1.03794 | 1.38860 | .72015 | 4 | .80402 |
| .76707 | 57 | .69403 | 1.44086 | .96400 | 1.03734 | 1.38899 | .71995 | 3 | .80373 |
| .76736 | 58 | .69424 | 1.44042 | .96457 | 1.03674 | 1.38938 | .71974 | 2 | .80344 |
| .76765 | 59 | .69445 | | | | | | 1 | .80314 |
| .76794 | 60 | .69466 | 1.43996 | .96513 | 1.03613 | 1.39016 | .71934 | 0 | .80285 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

| Arc. | ' | Sin. | Cosec. | Tan. | Cot. | Sec. | Cos. | | |
|--------|----|--------|---------|---------|---------|---------|--------|----|--------|
| .76794 | 0 | .69466 | 1.43956 | .96569 | 1.03553 | 1.39016 | .71934 | 60 | .80285 |
| .76824 | 1 | .69487 | 1.43912 | .96625 | 1.03493 | 1.39055 | .71914 | 59 | .80256 |
| .76853 | 2 | .69508 | 1.43869 | .96681 | 1.03433 | 1.39095 | .71894 | 58 | .80227 |
| .76882 | 3 | .69529 | 1.43826 | .96738 | 1.03372 | 1.39134 | .71873 | 57 | .80198 |
| .76911 | 4 | .69549 | 1.43783 | .96794 | 1.03312 | 1.39173 | .71853 | 56 | .80169 |
| .76940 | 5 | .69570 | 1.43739 | .96850 | 1.03252 | 1.39212 | .71833 | 55 | .80140 |
| .76969 | 6 | .69591 | 1.43696 | .96907 | 1.03192 | 1.39251 | .71813 | 54 | .80111 |
| .76998 | 7 | .69612 | 1.43653 | .96963 | 1.03132 | 1.39291 | .71792 | 53 | .80082 |
| .77027 | 8 | .69633 | 1.43610 | .97020 | 1.03072 | 1.39330 | .71772 | 52 | .80052 |
| .77056 | 9 | .69654 | 1.43567 | .97076 | 1.03012 | 1.39369 | .71752 | 51 | .80023 |
| .77085 | 10 | .69675 | 1.43524 | .97133 | 1.02952 | 1.39409 | .71732 | 50 | .79994 |
| .77114 | 11 | .69696 | 1.43481 | .97189 | 1.02892 | 1.39448 | .71711 | 49 | .79965 |
| .77144 | 12 | .69717 | 1.43438 | .97246 | 1.02832 | 1.39487 | .71691 | 48 | .79936 |
| .77173 | 13 | .69737 | 1.43395 | .97302 | 1.02772 | 1.39527 | .71671 | 47 | .79907 |
| .77202 | 14 | .69758 | 1.43352 | .97359 | 1.02713 | 1.39566 | .71650 | 46 | .79878 |
| .77231 | 15 | .69779 | 1.43310 | .97416 | 1.02653 | 1.39606 | .71630 | 45 | .79849 |
| .77260 | 16 | .69800 | 1.43267 | .97472 | 1.02593 | 1.39646 | .71610 | 44 | .79820 |
| .77289 | 17 | .69821 | 1.43224 | .97529 | 1.02533 | 1.39685 | .71590 | 43 | .79791 |
| .77318 | 18 | .69842 | 1.43181 | .97586 | 1.02474 | 1.39725 | .71569 | 42 | .79762 |
| .77347 | 19 | .69862 | 1.43139 | .97643 | 1.02414 | 1.39764 | .71549 | 41 | .79732 |
| .77376 | 20 | .69883 | 1.43096 | .97700 | 1.02355 | 1.39804 | .71529 | 40 | .79703 |
| .77405 | 21 | .69904 | 1.43053 | .97756 | 1.02295 | 1.39844 | .71508 | 39 | .79674 |
| .77434 | 22 | .69925 | 1.43011 | .97813 | 1.02236 | 1.39884 | .71488 | 38 | .79645 |
| .77464 | 23 | .69946 | 1.42968 | .97870 | 1.02176 | 1.39924 | .71468 | 37 | .79616 |
| .77493 | 24 | .69966 | 1.42926 | .97927 | 1.02117 | 1.39963 | .71447 | 36 | .79587 |
| .77522 | 25 | .69987 | 1.42883 | .97984 | 1.02057 | 1.40003 | .71427 | 35 | .79558 |
| .77551 | 26 | .70008 | 1.42841 | .98041 | 1.01998 | 1.40043 | .71407 | 34 | .79529 |
| .77580 | 27 | .70029 | 1.42799 | .98098 | 1.01939 | 1.40083 | .71386 | 33 | .79500 |
| .77609 | 28 | .70049 | 1.42756 | .98155 | 1.01879 | 1.40123 | .71366 | 32 | .79471 |
| .77638 | 29 | .70070 | 1.42714 | .98213 | 1.01820 | 1.40163 | .71345 | 31 | .79442 |
| .77667 | 30 | .70091 | 1.42672 | .98270 | 1.01761 | 1.40203 | .71325 | 30 | .79412 |
| .77696 | 31 | .70112 | 1.42630 | .98327 | 1.01702 | 1.40243 | .71305 | 29 | .79383 |
| .77725 | 32 | .70132 | 1.42587 | .98384 | 1.01642 | 1.40283 | .71284 | 28 | .79354 |
| .77754 | 33 | .70153 | 1.42545 | .98441 | 1.01583 | 1.40324 | .71264 | 27 | .79325 |
| .77784 | 34 | .70174 | 1.42503 | .98499 | 1.01524 | 1.40364 | .71243 | 26 | .79296 |
| .77813 | 35 | .70195 | 1.42461 | .98556 | 1.01465 | 1.40404 | .71223 | 25 | .79267 |
| .77842 | 36 | .70215 | 1.42419 | .98613 | 1.01406 | 1.40444 | .71203 | 24 | .79238 |
| .77871 | 37 | .70236 | 1.42377 | .98671 | 1.01347 | 1.40485 | .71182 | 23 | .79209 |
| .77900 | 38 | .70257 | 1.42335 | .98728 | 1.01288 | 1.40525 | .71162 | 22 | .79180 |
| .77929 | 39 | .70277 | 1.42293 | .98786 | 1.01229 | 1.40565 | .71141 | 21 | .79151 |
| .77958 | 40 | .70298 | 1.42251 | .98843 | 1.01170 | 1.40606 | .71121 | 20 | .79122 |
| .77987 | 41 | .70319 | 1.42209 | .98901 | 1.01112 | 1.40646 | .71100 | 19 | .79093 |
| .78016 | 42 | .70339 | 1.42168 | .98958 | 1.01053 | 1.40687 | .71080 | 18 | .79063 |
| .78045 | 43 | .70360 | 1.42126 | .99016 | 1.00994 | 1.40727 | .71059 | 17 | .79034 |
| .78074 | 44 | .70381 | 1.42084 | .99073 | 1.00935 | 1.40768 | .71039 | 16 | .79005 |
| .78103 | 45 | .70401 | 1.42042 | .99131 | 1.00876 | 1.40808 | .71019 | 15 | .78976 |
| .78133 | 46 | .70422 | 1.42001 | .99189 | 1.00818 | 1.40849 | .70998 | 14 | .78947 |
| .78162 | 47 | .70443 | 1.41959 | .99247 | 1.00759 | 1.40890 | .70978 | 13 | .78918 |
| .78191 | 48 | .70463 | 1.41918 | .99304 | 1.00701 | 1.40930 | .70957 | 12 | .78889 |
| .78220 | 49 | .70484 | 1.41876 | .99362 | 1.00642 | 1.40971 | .70937 | 11 | .78860 |
| .78249 | 50 | .70505 | 1.41835 | .99420 | 1.00583 | 1.41012 | .70916 | 10 | .78831 |
| .78278 | 51 | .70525 | 1.41793 | .99478 | 1.00525 | 1.41053 | .70896 | 9 | .78802 |
| .78307 | 52 | .70546 | 1.41752 | .99536 | 1.00467 | 1.41093 | .70875 | 8 | .78773 |
| .78336 | 53 | .70567 | 1.41710 | .99594 | 1.00408 | 1.41134 | .70855 | 7 | .78743 |
| .78365 | 54 | .70587 | 1.41669 | .99652 | 1.00350 | 1.41175 | .70834 | 6 | .78714 |
| .78394 | 55 | .70608 | 1.41627 | .99710 | 1.00291 | 1.41216 | .70813 | 5 | .78685 |
| .78423 | 56 | .70628 | 1.41586 | .99768 | 1.00233 | 1.41257 | .70793 | 4 | .78656 |
| .78453 | 57 | .70649 | 1.41545 | .99826 | 1.00175 | 1.41298 | .70772 | 3 | .78627 |
| .78482 | 58 | .70670 | 1.41504 | .99884 | 1.00116 | 1.41339 | .70752 | 2 | .78598 |
| .78511 | 59 | .70691 | 1.41463 | .99942 | 1.00058 | 1.41380 | .70731 | 1 | .78569 |
| .78540 | 60 | .70711 | 1.41421 | 1.00000 | 1.00000 | 1.41421 | .70711 | 0 | .78540 |
| | | Cos. | Sec. | Cot. | Tan. | Cosec. | Sin. | | Arc. |

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